



Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD

Re-accredited with A++ Grade by NAAC. CGPA 3.65/4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

6.3.3. Additional Information: Reports of the programs organized



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Coimbatore - 641 043, Tamil Nadu, India

*Report
of
National Conference
on
“Women Entrepreneurship: A Step Forward To Empowerment and Sustainability*

*Organized by
Department of Resource Management
Department of Home Science Extension Education
and
Women’s Studies Centre*

1st and 2nd December, 2022

**Avinashilingam Institute for Home Science and Higher Education for Women,
Coimbatore**

Deemed-to-be-University and Accredited with 'A++' Grade by NAAC

***National Conference on "Women Entrepreneurship: A Step Forward To Empowerment and
Sustainability on 1st and 2nd December, 2022***

***Department of Resource Management
Department of Home Science Extension Education
and***

Women's Studies Centre

Report on the National Conference

Theme: *Women Entrepreneurship*

The National conference was jointly organized by the Department of Resource Management, Department of Home Science Extension Department and Women's Studies Centre of the Avinashilingam Institute for Home Science and Higher Education for Women on ***1st and 2nd December, 2022***, from 9.30 a.m. to 5.00 p.m.

The second day of the Conference started with a Prayer song.

Day 2 Technical Session: (9.45 am to 3.30 am) Theme: *Gender Gap and Entrepreneurship*

Mrs. Sathyapriya, Assistant Professor, Department of Home Science Extension Education, Avinashilingam Institute for Home Science and Higher Education for Women welcomed and introduced the **Invited Speaker Dr. Zenetta Rosaline**, Professor and Director, Department of Women's Studies, Bharathiar University, Coimbatore.

Dr. Zenetta Rosaline, Professor and Director, Department of Women's Studies, Bharathiar University, Coimbatore was the speaker for the Technical Session. The topic was "Gender Gap in Entrepreneurship". Madam has experience with Entrepreneurship for the past 23 years. She expressed that opportunities are more in taking entrepreneurship but lacunae are still there. As our society is Patriarchal women are not permitted to take business as their career. Even if a few women are taking up entrepreneurship their success rate is not high as expected. This can be due to various constraints such as marketing, financial crisis, infrastructure and cultural setting of the society.

Some of the anticipated qualities of the entrepreneurs are accepting the challenges, ambitions, hard work and patience, adventurous and being conscious. This is evident in the fact that, despite the growing number of MSMEs in India, as of 2018–19, only one in every five enterprises was owned by women (21.5 per cent). For women entrepreneurs', marketing is a

big challenge. Madam articulated the challenges of women entrepreneurs. They are Problem of Finance, Scarcity of Raw Material, Stiff Competition, and Poor Infra structure, Limited Mobility, Family Ties, Lack of Education, Male-Dominated Society, Marketing and Low Risk-Bearing Ability.

Vote of thanks was given by **Dr. D. Kokila**, Assistant Professor, Department of Home Science Extension Education

Day 2 Technical Session: (10.30 am to 11.15 am) Theme: *Work Life Interface Experience and Coping Strategies-Implications for Successful Entrepreneurship for Sustainability (Online)*

The second speaker, was **Dr. Vijayalakshmi**, Professor and HOD, AICRP-HSC, FRM, Department of PG Studies and Research, PJT State Agricultural University, Saifabad, Hyderabad was welcomed by **Dr. B. Loganayaki**, Assistant Professor (SS), Department of Resource Management.

Madam enlightened with the two spheres of life. One is productive life and the other one is affective life. Women entrepreneurs face work related stress. She also highlighted about the Work life balance and coping strategies. She stressed about the absence of conflict between work and non-work roles.

Madam also explicated about the demarcation between work and family life. Work life interface is bidirectional for instance, work can interfere with private life and private life can interfere with work. Entrepreneurs often perceived as innovators whose pursuit of opportunity can fundamentally change the world by introducing new products or ideas. The desire for business will bring success when dedicating themselves with their business. She also pictured about the threat of failures and challenges faced by the entrepreneurs.

Vote of thanks was given by **Dr. P. Kalaivani**, Assistant Professor, Department of Home Science Extension Education.

Tea Break was prearranged between 11.15 am – 11.30 am.

Day 2 Technical Session: (11.30 am to 12.15 am) Theme: *Art of Preserving Flowers for Interiors (Online)*

The third speaker for the Technical Session was **Dr. Mahalakshmi V. Reddy**, Alumni, Founder & CEO, Lyo Florals (Startup), Hyderabad. **Dr. V. Sarasvathy**, Assistant Professor (SS), Department of Resource Management welcomed the speaker.

Madam explained about the characteristics of flowers and life span of the preserved flowers. She explained about the Freeze Drying Technology. Freeze drying is a process in which a completely frozen sample is placed under a vacuum in order to remove water or other solvents from the sample, allowing the ice to change directly from a solid to a vapor without passing through a liquid phase.

Flowers can be freeze dried for longevity and exquisiteness. Technically, freeze drying technology is the only process of preservation which removes moisture in such a way that the flowers maintain their original shape, texture and color better than other methods. Fresh flowers (must be in good condition) are flash frozen, then loaded into a freeze-drier and sealed for a period of 10 to 15 days. This process retains the original shape of the flower. Madam also pointed about the main advantage of freeze drying is that it results in products that appear almost like the fresh originals.

Dr. K. Sumathi, Assistant Professor, Department of Home Science Extension delivered the vote of thanks.

Day 2 Technical Session: (12.15 pm to 1.00 pm) Theme: *Entrepreneurship and its Effect on Economic Growth*

The last forenoon session speaker was **Dr. P. Karthikeyan**, Associate Professor, Department of Management Studies, Kongu Engineering College, Perundurai, Coimbatore. **Dr. S. Meenakshi**, Assistant Professor, Department of Home Science Extension Education welcomed the speaker. Sir expressed that nowadays Government is supporting start-ups. He also insisted that an entrepreneur should possess two important qualities. One is creativity and the other one is innovation.

Entrepreneurship paves the way to the economic development of the country. The role of entrepreneurship motivates economic growth through innovation and sustaining of competition among competitors. Entrepreneurship is an important part of industrial growth and the backbone of any country for its economic development. Sir opined that an entrepreneur can be regarded as a person who has the initiative skill and motivation to set up a business or enterprise of his own and who always looks for high achievements.

Vote of thanks was delivered by **Dr. D. Sumathi** Assistant Professor (SS), Department of Resource Management.

The Technical Session ended fruitfully and the Panel Discussion highlighting on the theme **“Women Entrepreneurship – Social and Cultural Challenges – A Case Discussion.**

Dr. S. Meenakshi, Assistant Professor, Department of Home Science Extension Education welcomed the Panel members.

The Moderator for the Panel Discussion was **Dr. A. Arthi**, Professor and Head, Department of Business Administration. The speakers were **Dr. A. Lovelin Jerald**, Professor and Head, Department of Food Processing and Preservation Technology, **Dr. T.K.S. Lakshmi Priya**, Professor and Head, Printing Technology and Alumni speakers **Ms. Malligaa and Ms. Preetha Thippayan**.

The moderator started the discussion where **Ms. Malligaa** shared her experiences on Areca Plate making. She informed about starting her business, the marketing challenges faced by her. Presently she is the owner for two businesses. One is Areca nut plates and the other one is Furniture and Interiors. She was proud to inform that she has introduced the eco-friendly product. She insisted to choose the right products and also shared her views on merchandizing and direct export to the European countries.

Dr. A. Lovelin Jerald the speaker shared her thoughts about entrepreneurship. She expressed innovate your ideas and convert them into products. She also instructed to improvise the product and then start the business. Men are more successful than women she quoted. For a business backup is also essential. She invited to expect a big profit within a short span of time. Women are mostly cheated in the business. **Dr. T.K.S. Lakshmi Priya** shared her views on the business started by the differently abled people. A few entrepreneurs are doing well as Interior Designers. Madam also stressed that an alternative idea should be there for entrepreneurs.

Dr. A. Arthi in the discussion explained about wealth out of waste. She also pointed out the challenges of women entrepreneurs in the preliminary discussion. They are funding/investment, mentors, networking, fear of failure, risk attitude, selection of the area, select the domain of life, work life balance and about the women entrepreneurs not much accepted in the society. No success stories, lack of awareness were the challenges faced by the entrepreneurs. Globally speaking in 2020, 2021, 2022 there is a increase in women entrepreneurs but still there is Gender Gap among the persons doing entrepreneurship.

Dr. Kayalvizhi Balamurugan, Assistant Professor, PG and Research Department of Home Science, Bharathidasan Government College for Women (Autonomous), Puducherry, voiced in the Panel Discussion. In her talking she asked the Panellists to identify the student's capacity in entrepreneurship. The Alumni who are entrepreneurs can be introduced to the students. They can be the eye opener for the students. The student's can have good role models. Funding will never be a problem for women. Confidence is coming out of the shells. The entrepreneurs should have the risk taking venture. Innovation and creativity is also a fundamental feature of the entrepreneurs. Entrepreneurship club can be introduced.

Valedictory – 3.30 pm on 02/12/2022

The valedictory gathering started with a prayer song. The **Welcome Address** was delivered by **Dr. M.R. Thilakam**, Head, Department of Resource Management, Avinashilingam Institute for Home Science and Higher Education for Women.

The **Presidential Address** was delivered by **Dr. S. Kowsalya**, Registrar, Avinashilingam Institute for Home Science and Higher Education for Women.

The Valedictory Address was delivered by **Dr. N. Manimekalai**, Professor, Department of Women's Studies, Bharathidasan University, Trichy.

Madam in her address elucidated about the forefront facets of development.

1. The kind of requirements needed for enhancing entrepreneurship
2. Marginalization and exclusion, lacunae in the system
3. Agencies of women entrepreneurs are not recognized

She explained about two types of entrepreneurs conventional and unconventional. Madam gave her views on digital marketing. She also expressed that physically challenges persons are also involved in entrepreneurship. In Trichy all SHGs are allowed to display their products in Bharathidasan University and affiliated Colleges for two days in a year for marketing the products of the SHGs. It was also taken into consideration that repeated products should not be displayed and importance was given to the Eco friendly products. She also uttered about the identification of the product, time management and the qualities of the successful entrepreneurs.

Greetings by **Dr. N. Vasugi**, Dean, School of Home Science, Avinashilingam Institute for Home Science and Higher Education for Women.

Mementos were presented to the dignitaries. The Feedback of the Conference was given by the participants. **Dr. Kayalvizhi Balamurugan**, Assistant Professor, PG and Research Department of Home Science, Bharathidasan Government College for Women (Autonomous), Puducherry and **Dr. Lakshmi Priya A.**, Alumni, Department of Resource Management gave the feedback.

Certificates were distributed for the participants. The Vote of Thanks was delivered by **Dr. R. Jansi Rani**, Head (i/c), Department of Home Science Extension Education.

The Conference smoothly ended with the **National Anthem** sung by the **I PG Students of Extension and Communication**, Department of Home Science Extension Education, Avinashilingam Institute for Home Science and Higher Education for Women.

Day 1 Technical Session: Parallel Session (3.30 pm to 5.00 pm) Theme: “Women Entrepreneurship: A Step Forward To Empowerment and Sustainability

Parallel Session started by 3.30 pm. The session was **chaired** by **Dr. K. S. Pushpa**, Professor and Head, Department of Home Science Extension Education, Gandhigram Rural Institute, Gandhigram, Dindigul and **Co-Chaired** by **Dr. R. Jansi Rani**, HOD (i/c), Department of Home Science Extension Education. The **Rapporteur** for the session was **Dr. Kayalvizhi Balamurugan**, Assistant Professor, PG and Research Department of Home Science, Bharathidasan Government College for Women (Autonomous), Puducherry.

The Welcome Address was given by the Rapporteur **Dr. Kayalvizhi Balamurugan**. She also introduced the Chair Person and the theme of the session. Eleven papers were presented by the participants from different regions namely Assam, Kerala, Andhra Pradesh, Oddisha, Tamil Nadu etc. Three papers were presented by online. Five minutes was given for presentation and two minutes for discussion. The outcomes of the deliberations are:

- Agri based farmer produce will pave the way for women entrepreneurship and Empowerment.
- Innovative training on food product development at KVK, ICAR to the women improves their skills and provides platform to develop various products such as curry leaves powder, snacks etc. This Agri Business School at KVK Karamadai will produce successful entrepreneurs.
- Production of quality farmer material/starting a nursery was an idea given.
- An overseen of Mompreneurs was highlighted and the challenges endured were presented.
- Challenges faced by the Home Nurses as a woman entrepreneur and how to overcome was highlighted.
- Herbal biscuits production and how it adds marketing value for women entrepreneurs was well presented.
- Role of higher education in building entrepreneurship skills, social entrepreneurship in agriculture were ways to develop entrepreneurship and empower women.

The session was concluded by highlighting the importance of the outcomes.



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Coimbatore - 641 043, Tamil Nadu, India

Report on
Seven Day National Workshop
on
**“Post NAAC Quality Enhancement in Higher Education
Institutions”**
22-29 August, 2022

Organized by
Internal Quality Assurance Cell

in Collaboration with



National Assessment and Accreditation Council

BROCHURE



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Coimbatore - 641 043, Tamil Nadu, India

Seven Day National Workshop on Post NAAC Quality Enhancement in Higher Education Institutions

22-29 August 2022



7 Days

25+ Events

- **Demonstration**
- **Case Studies**
- **Panel Discussion**
- **Debate**
- **Special Address**
- **Hands on Training**

Organized by

**Internal Quality Assurance Cell
in collaboration with**



Venue: Hi-Tech Seminar Hall

Institute at a Glance

Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore was established as an aided college by the great Patriot and Educationist Padma Bhushan **Dr. T.S. Avinashilingam Ayya Avl.** under the auspices of the Avinashilingam Education Trust in 1957 with 45 women students. **Dr. Rajammal P. Devadas**, Doyen of Nutrition and an eminent Home Scientist who nurtured the Institution of what it is today. The saga of excellence and legacy created by the visionaries have been carefully nurtured and carried forward by a team of devoted functionaries. Presently, **Dr. T.S.K Meenakshi Sundaram**, Managing Trustee, Sri Avinashilingam Education Trust, **Prof. S.P Thyagarajan**, Chancellor, **Dr. V. Bharathi Harishankar**, Vice Chancellor and **Dr. S. Kowsalya**, Registrar are carrying forward the transformative vision to place the Institution as its zenith. It is now one of the largest Institutions in the country to impart quality education for women at all levels. The Institute follows the educational ideals of Sri Ramakrishna, Holy Mother Sri Saradamani Devi, Swami Vivekananda and Mahatma Gandhi and upholds a life of purity, discipline and services. From time immemorial, the Institutional activities have been focusing on providing education with academic excellence, vitality of culture and values and social relevance. The Institute's educational process is to produce respectful, peaceful, honest and responsible people through an ethos, cultured environment within the Institute, in which the aforementioned values are the hallmark of how the Institute organizes itself into.

Our Significant Achievements

- ❖ Atal Ranking of Institutions on Innovation achievements (ARIIA-2020) Award – Ranked First in the category of HEI's for women
- ❖ 2021 - ISO Certification for Prof. CNR Rao Research Centre
- ❖ NIRF2021 University level 75th Ranking
- ❖ NIRF2022 University level 84th Ranking
- ❖ ARIIA-2021 - 5th Ranking in State University and Deemed University Category
- ❖ NAAC Reassessment 4th Cycle - A++ Grade

AVINUTY – IQAC

The Internal Quality Assurance Cell (IQAC) was constituted in May 2003 to ensure quality enhancement and sustenance and to make quality an inherent aspect of the institution. IQAC functions as a nodal center for initiating quality measures in various facets of Institutional activities.

The important activities of IQAC are

- Facilitating the creation of the Learner Centric Environment
- Quality initiatives with other Institutions
- Development and Application of Quality benchmark/parameters
- Collecting and analyzing feedback stakeholders
- Monitoring the implementation of quality improvement
- Novel documentation of other activities

About the Workshop

The IQAC of Avinashilingam Institute for Home Science and Higher Education for Women strives to engage stakeholders and maintain compliance with legal requirements and accreditation standards of the institute on a continuous basis. To ensure quality in higher educational institution every stake holder should be conscious of their role in contributing towards quality in the teaching-learning process, research, innovation, extension and governance. A seven day workshop in collaboration with NAAC as “**Post NAAC Quality Enhancement in Higher Education Institutions**” is organized for conducting various events and activities focusing on showcasing Quality concepts, in collaboration with all the academic and administrative unit. The workshop will facilitate the participants to disseminate good practices of quality assurance and enhancement at university and institutional level and will reflect critically on the Quality Assurance system at their own institutions

The main objective of this workshop is to raise awareness on quality assurance / sustenance / enrichment initiatives among all the stakeholders and to adopt high-quality standards in education and research. It is also an opportunity for the institution to reflect on its quality practices and commit to a continuous quest for excellence, which will usher in credibility to individuals and institution.

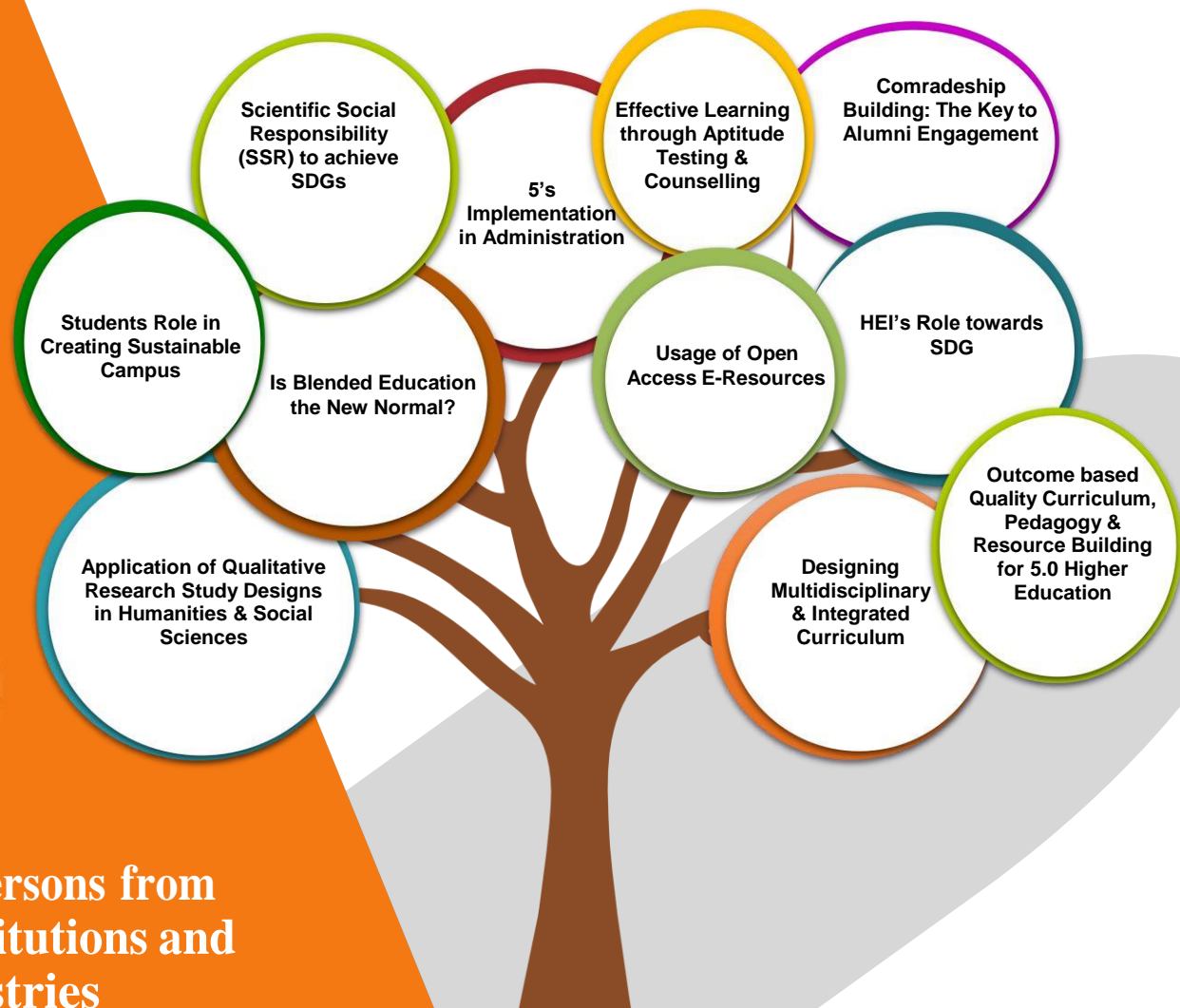
Workshop Objectives

- ✦ To discuss the curriculum enhancement envisioned in NEP
- ✦ To provide an effective learning platform accelerating towards OBE
- ✦ To nurture Research, Innovation & Extension Environment integrated with Scientific Social Responsibility (SSR)
- ✦ To address the advancement in learning resources & green infrastructure
- ✦ To reinforce youth empowerment through skill development and building comradeship
- ✦ To analyze the HEI's role towards SDG

Expected Outcomes

- ⇒ Improved knowledge on curriculum enhancement envisioned in NEP
- ⇒ Clarity on effective learning platform accelerating the OBE process
- ⇒ Develop effective Research, Innovation & Extension Environment
- ⇒ Familiarization of e-learning resource tools
- ⇒ Identification of best practices that helps in enhancing quality standard
- ⇒ Influence the youth empowerment through skill development
- ⇒ To contribute towards the SDG's

Overview of the Events



Resource persons from
reputed Institutions and
Industries

ORGANISING COMMITTEE

CHIEF PATRONS

Dr. T.S.K. Meenakshisundaram, Managing Trustee
Prof. S.P.Thyagarajan, Chancellor

PATRONS

Dr. V. Bharathi Harishankar, Vice Chancellor
Dr. S. Kowsalya, Registrar

CONVENOR

Dr. U. Jerinabi, IQAC Coordinator

CO-CONVENORS

Dr. K. Arockia Maraichelvi, IQAC Asst. Coordinator
Dr. K. Ramya, IQAC Core Member

ORGANIZING SECRETARIES

Dr. Kalaiselvi Senthil, Asst Dean, Sponsored projects
Dr. E. Indira, Asst Prof. Visual Communication

Registration Details

Registration Fee: Rs. 1500/-

Account Details for Registration Fee

Account Holder Name : The Registrar
Savings A/c No : 6010310202
Bank Name : Indian Bank
Branch : ADUC
117, Mettupalayam Road
Coimbatore 641 043
IFSC Code : IDIB000A005

To Register



[Click Here](#)

Last Date to Register- 15.08.2022

Accommodation for Outstation participants will be arranged on pre-request and payment



Who Can Participate

- ▲ Principals
- ▲ Vice Principals
- ▲ Deans
- ▲ IQAC Directors/ Co-ordinators
- ▲ Representatives of Quality Councils
- ▲ Senior Faculty Members
- ▲ Faculty members who are interested can participate

**“Quality is more important than quantity.
One home run is much better than two double”
- Steve Jobs**

For Queries

Email Address
iqac@avinuty.ac.in

Contact Details
9003919202/ 9842242948

PROGRAMME SCHEDULE

SCHEDULE

Seven Day National Workshop on Post NAAC Quality Enhancement in Higher Education Institutions

Day- 1

Curricular Aspects

Day- 2

Teaching, Learning & Evaluation

Day-3

Research Innovations & Extension

Day- 4

Infrastructure & Learning Resources

Day-5

Student Support & Progression

Day- 6

Governance, Leadership & Management

Day-7

Institutional Values & Best Practices

ROAD MAP

INAUGURATION

9.30AM - 11.00AM

Day-1 (22.08.2022)

Prayer

Welcome Address



Dr. U. Jerinabi

IQAC Coordinator

Avinashilingam Institute for Home Science and Higher Education
for Women, Coimbatore

Presidential Address



Prof. S. P. Thyagarajan

Chancellor

Avinashilingam Institute for Home Science and Higher Education
for Women, Coimbatore

Inaugural & Special
Address



Topic: Designing Multidisciplinary and Integrated Curriculum

Dr. Bhushan Patwardhan

Distinguished Professor

Inter-disciplinary, School of Health Sciences
Savitribai Phule Pune University, Pune

Greetings



Dr. K. Kowsalya

Registrar

Avinashilingam Institute for Home Science and Higher Education
for Women, Coimbatore

Vote of Thanks



Dr. E. Indira

Assistant Professor (SG), Dept. of Visual Communication

Avinashilingam Institute for Home Science and Higher Education
for Women, Coimbatore

Stakeholders' Feedback and Curriculum Enhancement

Moderator

Dr. G. Padmavathy

Dean Academics & PSCS, AIHS& HEW, Coimbatore

Panelist

Student

Mrs. Shahin Fathima

II M.Sc. Human Development, AIHS& HEW, Coimbatore

Parent

Mr. M. Mohamed Ibrahim

Deput Stres Officer, TNEB South Tatabat, Coimbatore

Alumni

Dr.Rupa Gunaseelan

Director i/c & Professor,

BSMED Department, Bharathiar University, Coimbatore

Employer

Mr. Prasath

HR – Generalist, Molecular Connections

Is Blended Education the new normal?

Dr. Caven McLoughlin

Professor, Lifespan Development & Education Sciences

Kent University, Kent, US

Best Practice adopted in Curricular Aspects

Dr.K. Ramya

Assistant .Professor Department of Business Administration

Avinashilingam Institute for Home Science and Higher

Education for Women, Coimbatore



Session- 2
Panel discussion
11.15am-12.45pm

Session- 3 (Virtual)
Special Address
1.30pm-3.00pm

Session- 4 (Virtual)
Case Study
3.15pm - 4.45pm

Day-2 (23.08.2022)

Theme: Teaching, Learning & Evaluation

Session- 5 (Virtual)
Special Address
9.30am –11.00am



Outcome Based Quality Curriculum, Pedagogy & Resource Building for 5.0 Higher Education Enhancement

Prof. Sudhanshu Bhushan

Professor & Head, Higher and Professional Education NIEPA, New Delhi

Session- 6
Hands on Training
11.15am -12.45pm



Advanced tools for Students & Teachers to face the future of AI

Dr. M. Vinay

Assistant Professor, Department of Computer Sciences, School of Sciences, CHRIST University, Bangalore

Session- 7
Hands on Training
1.30pm -3.00pm



Effective Learning through aptitude testing & Counseling

Dr. M. Jayakumar

Former IQAC Director & Dean, School of Education, Bharathiar University, Coimbatore.

Session- 8
Special Address
3.15pm-4.15pm



Best Practice adopted in Teaching, Learning & Evaluation

Dr. Gabriel Simon Thattil

Professor & Head,
Department of Commerce, University of Kerala

Session- 9 (Virtual)
Case Study
4.15pm-5.15pm

Day-3 (24.08.2022)

Theme: Research, Innovations & Extension

Global requirements in products development & Quality control in R&D laboratories

Dr. P. Lalitha. Director R&D i/c, Research and Consultancy Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore



**Session- 10
Special Address
9.30am –11.00am**

Best Practice adopted in Research, Innovations & Extension Enhancement

Dr. Pramod K Nayar
Professor, Department of English, University of Hyderabad



**Session-11 (Virtual)
Special Address
11.15am-12.45pm**

Application of Qualitative research study designs in Humanities and Social Sciences

**Moderator
Dr. Caven McLoughlin**
Professor, Lifespan Development & Education Sciences, Kent University, Kent, US



**Session- 12 (Virtual)
Panel Discussion
1.30pm-3.00pm**

Panelist

Dr. Kirthi Gupta
IQAC Director & Professor in Research Methodology & Quantitative Techniques, IMED BVDU, Pune



Dr. Shubhada Nagarkar

Associate Professor, Department of Library & Information Science
Co-coordinator, Centre for publication Ethics,
Savithri Phule, Pune University



Dr. S Gandhimathi

Professor & Head, Deputy Dean, Dept. Economics,
AIHS& HEW, Coimbatore



Dr. J. Arthi

Professor & Head, Dept. of Business Administration
AIHS& HEW, Coimbatore



Scientific Social Responsibility (SSR) to achieve SDG's

Dr. W. Selvamurthy
President, President of Amity Science, Technology and Innovation Foundation



**Session- 13 (Virtual)
Case Study
3.15pm-4.45pm**

Day-4 (25.08.2022)

Theme: Infrastructure and Learning Resources

**Session- 14 (Virtual)
Demonstration
9.30am –11.00am**



Usage of Open Access E-Resources

Dr. B. S. Balaji

Professor, School of Biotechnology, JNU, Delhi

**Session- 15 (Virtual)
Special Address
11.15am-12.45pm**

IT/ICT Hard/ Software for Online Education

Dr. B. S. Balaji

Professor, School of Biotechnology, JNU, Delhi

**Session- 16 (Virtual)
Panel Discussion
1.30pm-3.00pm**



Panelist

Dr. Indrani Chakroborty

Professor, Faculty of Architecture & Planning, AKTU, Lucknow



Panelist

Dr. B. S. Chaudhary

Professor, Dept. of Geophysics Kurukshetra University,
Kurukshetra

**Session- 17 (Virtual)
Case Study
3.15pm-4.45pm**



Best Practice adopted in Infrastructure and Learning Resources

Dr. P. Vatsalaswamy

Director IQAC, Dr. D.Y Patil Vidyapeeth, Pune

Day-5 (26.08.2022)

Theme: Student Support and Progression

Students role in Achieving the sustainable Development Goals

Prof. S P Thyagarajan

Chancellor, AIHS& HEW, Coimbatore



**Session- 18
Special Address
9.30am –11.00am**

Life Skill & Vocational Education leads to youth empowerment

Mr. Che Prasanna

Director, Aram Porul, Course Coordinator, PGDHRM, LIVE Loyola Chennai.



**Session- 19
Debate
11.15 am-12.45pm**

Comradeship Building: the key to Alumni Engagement

Moderator

Dr. A. Xavier Mahimaraj

Former IQAC Director, Treasurer, Loyola Alumni Association, Chennai



**Session- 20 (Virtual)
Panel Discussion
1.30pm-2.30pm**

Panelist

Dr. P. Santhi

Professor & Head, Dept. Commerce
AIHS& HEW, Coimbatore



Dr. S. Uma Mageshwari

Dean, Students Affairs, Professor, Dept. of FSMD
AIHS& HEW, Coimbatore



Promotion of Gender Equity in HEIs

Mr. Vishal Vaswani

Emergency Officer, UNICEF India



**Session -21 (Virtual)
Special Address
2.30pm-3.00pm**

Best Practice adopted in Student Support and Progression

Prof. A. Krishnamoorthy

IQAC Coordinator

SASTRA Deemed University, Thanjavur.



**Session- 22 (Virtual)
Case Study
3.15pm-4.45 pm**

Day-6 (27.08.2022)

Theme: Governance, Leadership and Management

Session -23
Hands-on Training
9.30am –12.45pm



5S Implementation in Administration

Mr. A.R. Lakshmanen

Head, Training and Development Propel industries Pvt. Ltd,
Coimbatore

Session- 24
Panel Discussion
1.30pm-3.00pm



IQAC: The Nerve Centre of Quality Assurance

Moderator

Dr. Prashant R Nair

Vice Chairman, IQAC, Amrita Vishwa Vidyapeetham, Coimbatore



Panelist

Dr. N. Ponpandian

Professor & Head

Dept of Nano Science, Bharathiar University, Coimbatore



Dr. R. Venkatachalapathy

Director IQAC,

Periyar University, Salem

Session- 25 (Virtual)
Case Study
3.15pm-4.45pm



Best Practice adopted in Governance, Leadership and Management

Dr. Prashant R Nair

Vice Chairman, IQAC, Amrita Vishwa Vidyapeetham, Coimbatore

Day-7 (29.08.2022)

Theme: Institutional Values and Best Practices

Globalization, Gender & Development

Dr. V. Bharathi Harishankar

Vice Chancellor, AIHS& HEW, Coimbatore



Session- 26
Special Address
9.30am –11.00am

Contemporary Waste Management Practices

Moderator

Dr. Shyamala Mani

Professor (Retd.) at National Institute of Urban Affairs,
Programme Director - Centre for Environment Education



Session- 27 (Virtual)
Panel Discussion
11.15am-12.45pm

Dr. R Nithya

Associate Professor & Head, Dept. Civil Engineering
AIHS& HEW, Coimbatore



Dr. T. Rajesh

Scientist, CSIR ,Madras



Best Practices of HEIs

Dr. B.S. Ponmudiraj

Advisor, NAAC, Bangalore



Session- 28 (Virtual)
Experience Sharing
1.30pm-3.00pm

HEI's Role towards SDG

Dr. Sujatha

SDG Consultant, Government of Tamil Nadu



Session- 29 (Virtual)
Valedictory Special
Address
3.15pm-4.45pm

Organizing Committee

Chief Patrons



Dr. T.S.K. Meenakshisundaram
Managing Trustee



Dr. S. P. Thyagarajan
Chancellor

Patrons



Dr. V Bharathi Harishankar
Vice Chancellor



Dr. S. Kowsalya
Registrar

Convenor



Dr. U. Jerinabi
IQAC Coordinator

Co- Convenors



Dr. K. Arockia Maraichelvi
IQAC Asst. Coordinator



Dr. K. Ramya
IQAC Core Member

Organizing Secretaries



Dr. Kalaiselvi Senthil
Asst. Dean, Sponsored Research



Dr. E. Indira
Asst. Prof. Visual Communication

An orange hexagonal shape with a thin black border, centered on the page. It contains the text "Preamble of the Workshop" in a bold, black, serif font.

**Preamble of
the Workshop**

Brief note about the institute

With a focus on achieving wholesome academic experience from the view point of geocentric inclusive education; we offer 'Holistic Education' to women students. Inculcating Value based education, Scientific temper, Social and Citizenship roles, Professional / Technical skills, mentoring and honing individual potentials, Vocational training, Pruning entrepreneurial skills, Sharpening managerial acumen, exposure to Special Education and Physical Education – all with an eye on developing the students "Intellectual, Technical, Social and Emotional well being" – are well managed through the Programmes / Courses offered by the seven faculties and the 36 departments in the (formal stream).

The Institution, as is well known, is the brain child of our first Chancellor, Rev.Padmabushan, Dr. T. S. Avinashilingam AyyaAvl., an epitome of simplicity, grace and Gandhian ideals, whose vision had paved way for concrete women's empowerment through education. Coupled with the selfless and sacrificial efforts of our former Chancellor and the doyen of Home Science, Dr.Rajammal P. Devadas, whose unstinted initiatives had led us to scale higher, our University has touched still higher peaks – receiving Category 'A' from MHRD, A++" Grade with the CGPA 3.65/4.00 from NAAC, 84th Rank in the University category from NIRF, 5th place under the category State University & Deemed Universities (Govt./Govt. Aided) (Technical) from Atal Ranking of Institutions on Innovation Achievement (ARIIA 2021) respectively – which stand testimony to it. The institute was initiated with less number of students, but now it has grown educating more than 8,154 students.

The Institute scales higher under the untiring efforts of Dr. T.S.K. Meenakshisundaram, Managing Trustee, Dr. S. P Thyagarajan, Chancellor and Dr. V Bharathi Harishankar, Vice Chancellor, Dr. S. Kowsalya Registrar. Constant drive in imparting quality higher education through excellent infrastructure, efficient faculty and higher academic standards has been instrumental in achieving these laurels.

Objectives and themes of the workshop

Title of the workshop: “Workshop on Post NAAC Quality Enhancement in Higher Education Institutions”

Objectives

- To discuss the curriculum enhancement envisioned in NEP
- To provide an effective learning platform accelerating towards OBE
- To nurture Research, Innovation & Extension Environment integrated with Scientific Social Responsibility (SSR)
- To address the advancement in learning resources & green infrastructure
- To reinforce youth empowerment through skill development and building comradeship
- To analyse the HEI’s role towards SDG **Sub-themes**
- Curricular reforms envisioned in NEP
- Effective learning through OBE
- Research Innovation & Extension with SSR
- Sustainable Green infrastructure & New learning resources
- Student support & progression for youth empowerment
- Role of HEI’s towards SDG

1. Highlights of the event – At Glance:

Seven day National workshop on “Post NAAC Quality Enhancement in Higher Education Institutions” was organized by Internal Quality Assurance Cell, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore in collaboration with National Assessment and Accreditation Council from 22nd to 29th August 2022 through blended mode.

Day 1- 22.08.2022

**INAUGURATION OF THE
WORKSHOP**

The Internal Quality Assessment Cell of Avinashilingam Institute for Home Science and Higher Education for Women, (Deemed to be University), Coimbatore has taken the initiative of organizing a Seven Day National Workshop on Post NAAC Quality Enhancement in Higher Education Institutions. The Inaugural of the event was held on 22nd August 2022 at Hi-Tech Seminar Hall of the Institute. Dr. U. Jerinabi, IQAC Coordinator welcomed the august gathering.

Honourable Chancellor Prof. S.P.Thyagarajan presided over the event. In his presidential address he stated that Seven Day National Workshop on “Post NAAC Quality Enhancement in Higher Education Institutions” is a phenomenal event which had 29 sessions, Group Discussion, Demonstration and Exercises. 43 national Experts and a Professor from Kent University, England participated in the workshop. He said that quality is the sum of the combined performance of teachers and students. He stated that quality education is of vital importance and emphasised on the key fact that “Quality should be a culture, habit in our day to day activity”, it should be accepted as the performance index. Education involves analytical skills, critical thinking, and problem solving. Students should improve their performance day by day and make it as a habit to work as a team rather than as an individual, it will lead to triumph. He said that while working as a team, it is necessary to share the responsibilities & the commitments and the end result would be a great accomplishment.

While there would be difficulties in accomplishing the goal, he claimed that if we work as a team with shared accountability, we can succeed. Likewise, as dynamic changes take place, we should be aware of those circumstances and create strategies to handle them. We will achieve the comprehensive outcome if we complete the Sustainable Development Goals, which are part of all disciplines.

The Chief Guest of the event, Professor Dr.Bhushan Patwardhan, Inter-disciplinary, School of Health Sciences, Savitribai Phule Pune University, Pune delivered the Keynote Address on the topic “Designing a Multidisciplinary and Integrated Curriculum”.

He said that critical thinking is needed to improve the quality of education and continuous evaluation of students, it is necessary to ascertain quality in academic scenario. Teachers have an important role to play in this process. The academicians’ should have an outlook for social progress. Avinashilingam Institute for Home Science and Higher Education for Women is a model for other Institutions. He added that education of Women is mandatory for the advancement of women in the society. By conducting such workshops in Universities and Colleges, it becomes an opportunity for everyone to know the importance of improving the quality of education.

He distinguished between the ranking and accrediting processes in his speech. He also said that evaluations and accreditation should operate in binary mode. He also stated that the Institute's Curricular Framework should be in line with NEP 2020. According to him, the Government is taking steps to unify the NAAC, NIRF, and NDA under a single framework. He asserted that higher standards for education are necessary because today's pupils dislike regurgitating information from textbooks and demand greater critical thinking. He emphasised the extraordinary power of women

since they possess strong leadership qualities and serve as positive role models. He suggested that "Avinashilingam Institute" mentor other Institutions as a part of the UGC-Paramarsh programme.

Dr. S. Kowsalya, Registrar, Avinashilingam Institute for Home Science and Higher Education for Women, delivered the Felicitation Address. She congratulated all the Coordinators and Professors for organizing the Seven-day Workshop. Dr. Indira, Assistant Professor, Department of Visual Communication, proposed the formal Vote of Thanks.



Lightening the Lamp



Welcome by Dr.U.Jerinabi
IQAC Coordinator, AIHS & HEW



Presidential Address
Prof. S.P.Thyagarajan
Chancellor, AIHS & HEW



Inaugural Address
Dr. Bhushan Patwardhan,
Distinguished Professor, School of Health
Sciences, Savitribai Phule Pune University



Greetings
Dr. S. Kowsalya
Registrar, AIHS & HEW



Vote of Thanks
Dr.E.Indira
Organizing Secretary, Assistant Professor in
Visual Communication, AIHS & HEW

Day 1 -22.08.2022
CURRICULAR ASPECTS

Curricular Aspects

Session 2:

Panel discussion

“Stakeholders’ Feedback and Curriculum Enhancement”

Moderator

Dr. G. Padmavathi,

Dean, Academics & PSCS, AIHS & HEW, Coimbatore

Panelists:

1. Dr.Rupa Gunaseelen (Academician)

Director (i/c) & Professor, Department of BSMED, Bharathiar University, Coimbatore

2. Mrs.ShahinFathima(Student)

II M.Sc. Human Development, AIHS& HEW

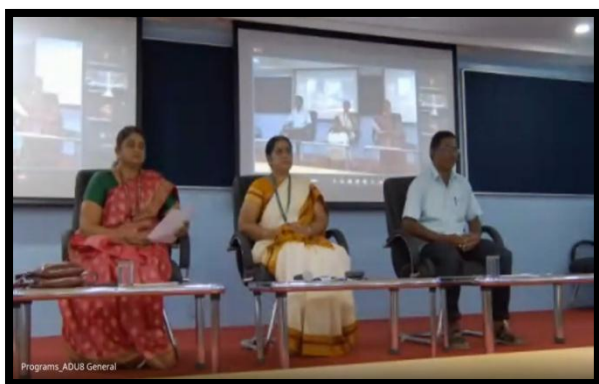
3. Mr.Prasath(Employer)

HR-Generalist, Molecular Connection

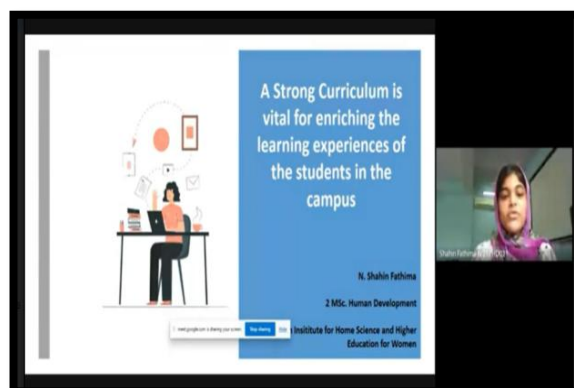
4. Mr. Mohamed Ibhrahim (Parent)

Deputy Stores Officer, TNEB, Coimbatore

Panel Discussion on “Stakeholders’ Feedback and Curriculum Enhancement” was moderated by Dr. G. Padmavathi, Dean, Academics & PSCS, AIHS & HEW, Coimbatore. The Panel Discussion was initiated by Dr.Rupa Gunaseelen, Director (i/c) & Professor, Department of BSMED, Bharathiar University, Coimbatore. Mrs.Shahin Fathima, II M.Sc. Human Development, AIHS& HEW, Coimbatore represented the students’ opinion on Curricular Aspects and stated that “Strong Curriculum is vital for enriching the learning experience of the students in the campus”. The significance of topic expertise for seizing employment possibilities was emphasised by Mr.Prasath, HR-Generalist, Molecular Connection. Additionally, he emphasised that the curriculum should assist students in acquiring the knowledge and abilities necessary for employment.



**Panel discussion on “Stakeholders’
Feedback and Curriculum Enhancement”**



Mrs.ShahinFathima
II M.Sc. Human Development, AIHS& HEW

Session 3:

Special Address (Virtual)

Is Blended Education the new normal?"

Dr.Caven McLoughlin

Professor, Lifespan Development and Education Sciences, Kent University, Kent, U.S.A.

The session started with an introduction about the speaker, Dr. CavenMcLoughlin. He spoke about the role of NAAC in helping the Colleges and Universities to increase the quality of education and capabilities. He also spoke about the contemporary situation of the higher education in India and the challenging situation created by Covid - 19. He highlighted on the mobile data driven society and solutions to overcome this challenging situation. He also spoke about the blended education and its role in increasing the potential of students learning.

The session commenced with an introduction about the speaker Dr Caven McLoughlin. He discussed on how the NAAC assists Schools and Universities in raising the standard of instruction and capacities. He focussed on the current state of higher education in India and the difficult circumstances brought about by Covid - 19. The concept of mobile data society and how to deal with this difficult scenario was highlighted. The significance of blended learning and the manner in which it can help students learn more effectively was focussed.

He gave brief description about following key concepts:

How to use what we know about blended learning to identify the priorities and measure the success?

Ideas, best practice, experience both successful and unsuccessful Conjecture about the potential outcomes, implication, and possible future direction for blended education in higher education. Speculate about how higher education will likely function as we move forward.

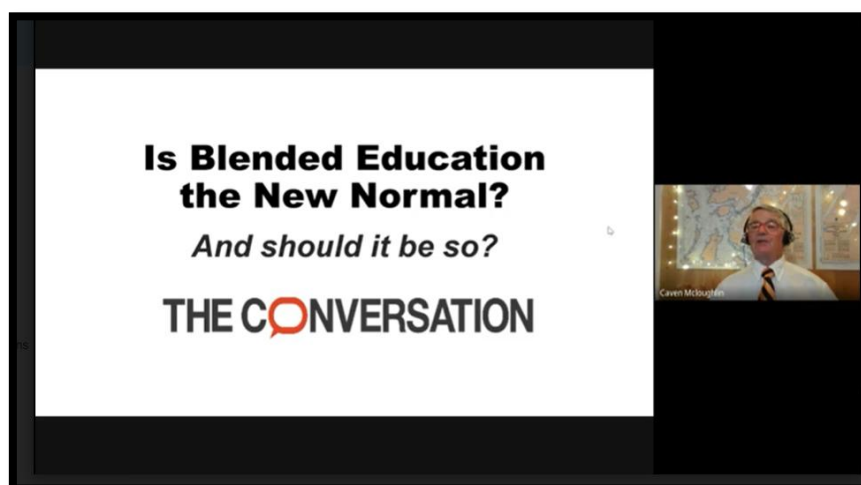
Blended learning is truly considered transformative and innovative and so demands our consideration. Understand your thoughts about the strategies for changes and build momentum in the learning process adopted in your institution.

Blended learning focuses on integrating face-to-face classes into a combination of online and face-to-face classes, reducing class time for students. Blended learning is more than just a blended learning approach and can take many forms. Blended learning approaches are popular with students who typically learn only face-to-face. Blended learning comes first among all alternatives when students express a belief in the effectiveness of their learning environment.

Adult learners tell us that the characteristics they consider essential are the following three dimensions:

1. Clearly defined goals and course objectives
2. Learning environment that promotes effective teaching and learning
3. Instructors committed to respectful and effective communication based on the student's prior knowledge.

He stated that the biggest hurdle in achieving any benefits from a movement towards a blended education setting is an unwillingness to invest in developing an institutional road map for campus wide digital transformation.



Dr. Caven McLoughlin

Professor, Lifespan Development and Education Sciences, Kent University, Kent US

Session 4

Best practice – Curricular Aspects

Dr. K. Ramya

Assistant Professor, Department of Business Administration, AIHS & HEW

She focussed on the need to properly identify the Best practices and suggested that brainstorming can help arrive at best practices. The Best practices should be identified based on the results achieved, both tangible and intangible. The best practice formats should be followed carefully, including title, goal, context, process, deliverables, and issues. It needs to be drafted and improved. The best practices in CBCS-based curriculum, embedded internships in the curriculum, values-based curriculum and similar concepts were discussed in detail. It would be rewarding if the practices that have had a positive impact at the institutional level are earmarked as Best Practices of the Institution.

Day 2- 23.08.2022

**TEACHING, LEARNING &
EXTENSION**

Teaching, Learning & Evaluation

Session 5:

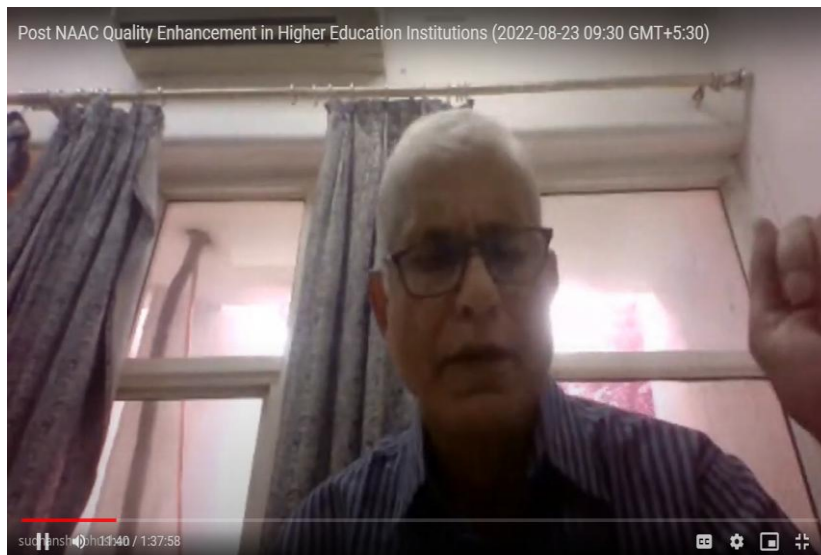
Special Address

“Outcome based Quality Curriculum, Pedagogy & Resource Building for 5.0 Higher Education Enhancement”

Prof. Dr. SudhanshuBhusan

Professor & Head, Higher and Professional Education, NIEPA

Prof. Sudhanshu Bhusan provided a clear insight into “Learner Centred” system of Education. The learner- centred system emphasized student freedom to choose courses, curriculum flexibility, a credit transfer system, and multiple admissions and withdrawals from academic programs. The New Education Policy 2020 is changing the paradigm from Teacher-centred education to Learner-centred education. The selection-based credit system guidelines and undergraduate credit allocation were discussed in detail. The significance of the Washington Accords and how results-based education has stepped up in the Indian education system, starting with engineering majors were emphasised. He also distinguished between program outcomes and course outcomes and discussed in detail on how educational methodology/pedagogy can support Outcome-based educational systems.



Prof. Dr. SudhanshuBhusan
Professor & Head, Higher and
Professional Education, NIEPA

Session 6 & 7

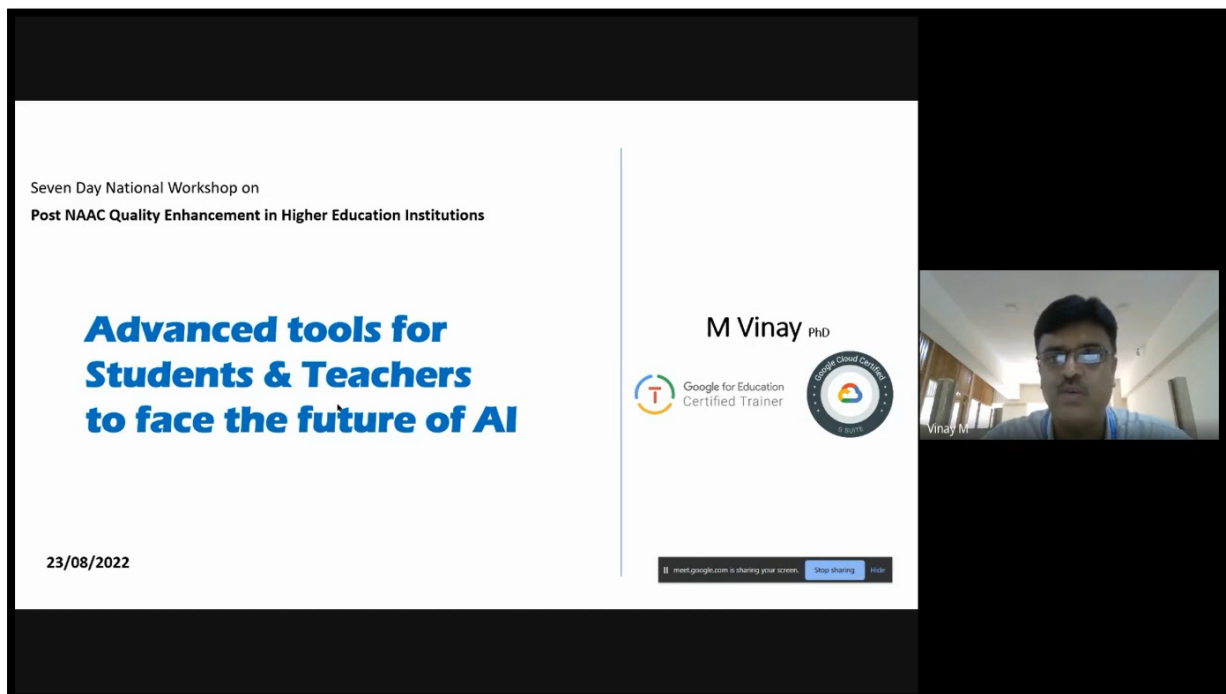
Hands on Training

“Advanced tools for Students & Teachers to face the future of AI”

Dr M.Vinay

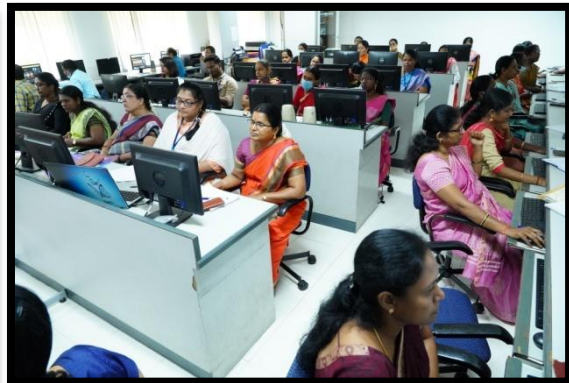
Assistant Professor, Department of Computer Sciences, School of Sciences,
CHRIST University, Bangalore

Dr.Vinay briefed about the “Google Talk & Techniques in Artificial Intelligence”. He mentioned that the future is based on AI, Automation and Machine learning. The electronic gadgets especially mobile phones have replaced camera, watch, alarm, torch, postal activities, book, calculator, TV remote, calendar, etc.. He also gave Hands-on Training on usage of AI tools in Google.



Dr M.Vinay

Assistant Professor, Department of Computer Sciences,
CHRIST University, Bangalore



Hands-on-Training for Participants

Session 8:

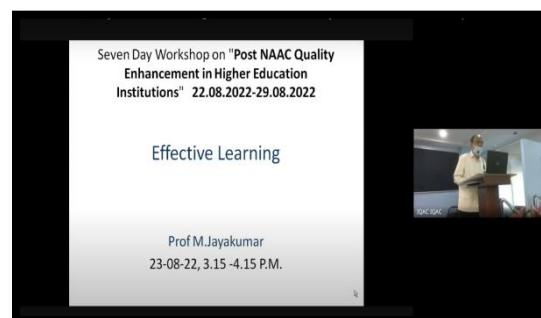
Special Address

“Effective Learning through Aptitude Testing & Counselling”

Dr.M. Jayakumar

Former IQAC Director & Dean, School of Education, Bharathiar University, Coimbatore

Dr. Jayakumar gave a detailed description about the learning process. He highlighted on Self-learning and Lifelong learning with real-time examples. He also emphasized on how facilitators have to transform the students from passive listener to active learners. He discussed on active training techniques such as role-play, internship, peer tutoring and challenging discussion. He explained the difference between pedagogy and ideology and stated that University is a place where new ideas are generated and teaching-learning process must be based on appreciation process. He emphasized on student centric learning systems namely learning by reflection, behaviour cognitive psychology, constructivism, experiential learning, Myers-Brigg Type Indication (MBTI) and KOLB learning style 2011.



Session 9:

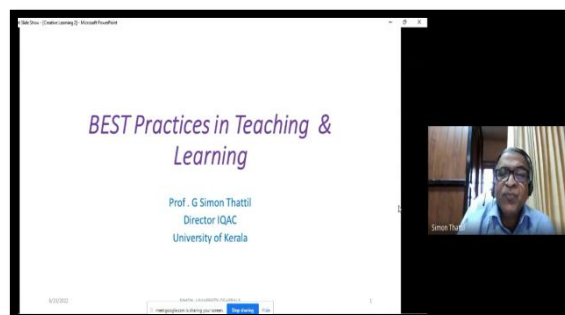
Best practices adopted in Teaching, Learning and Evaluation Process

Dr. Gabriel Simon Thattil,

Professor and Head, Department of Commerce, University of Kerala

Dr. Simon started the session by emphasizing the importance of quality for better results. He cited Institutions as systems that act as forward connectors and support the development of progressive teaching and learning. He stated that one of his best practices in teaching and learning, is “for teachers to teach and learn by inspiring and encouraging creative and critical thinking”. Education aimed at fostering curiosity and understanding fosters transformation in learners.

Confidence, depth of knowledge, and communication are the best practices in education. Learner-centred and value-centred education is obligatory for holistic improvement. Citing the Covid era, he emphasized on the challenges of the virtual teaching mode and stated that the biggest challenge of the period was finding best practices for learners with disabilities.



Day 3- 24.08.2022

**RESEARCH, INNOVATIONS &
EXTENSION**

Research, Innovations & Extension

Session 10

Special Address

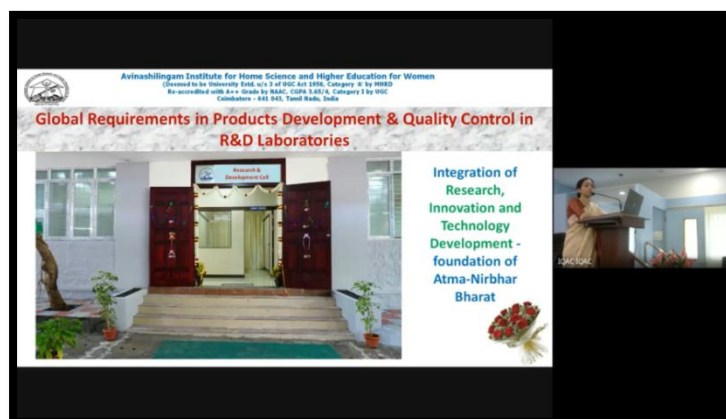
“Global requirement in product development and Quality control in R & D laboratories”

Dr.P.Lalitha

Dean, Research & Development (i/c), Professor in Chemistry, AIHS & HEW, Coimbatore
Dr.Lalitha discussed about Atma Nirbhar Bharat, the Self Reliant India. She quoted that the research will pave way to economic development. Discussed about the implement done in NEP -2020by redesign, refocus and reform the vision. She highlighted that “Product developed through research should lead to produce global production.

She mentioned about the six major steps for product development. which are Research, Validate and develop a product, lab to land, testing, scale up studies, technology transfer and commercialization, global distribution. She discussed the importance of publishing an article so that we can avoid the redundancy. She mentioned the requirements of product development, Proof of concept PoC, discipline in the process and usability.

She also discussed about the Quality Control in R&D Laboratories and cited the definition given by Juran that quality as “fitness for use”: An essential requirement of these products is that they meet the needs of those members of society who will actually use them. This concept of fitness for use is universal. She projected the quality assurance cycle which comprises of patient/clinical preparation like sample collection, personnel competency test evaluation, sample receipt and accessioning, sample transport, quality control testing, record keeping and finally reporting. She highlighted the 5 steps of ISO Registration they are choosing the right standard, choosing the ISO registrar, preparing the ISO application and quality document, consideration in planning and robust returns. She ended the session with a quote “Research is seeing what everybody else has seen and thinking what nobody else has thought and we hope to think different”.



Dr. P. Lalitha

Dean, Research & Development (i/c),
Professor in Chemistry, AIHS & HEW, Coimbatore

Session 11:

Case Study

“Research, Writing, Publishing: Some Good Practices”

Dr. Pramod K Nayar

Professor, Department of English, University of Hyderabad

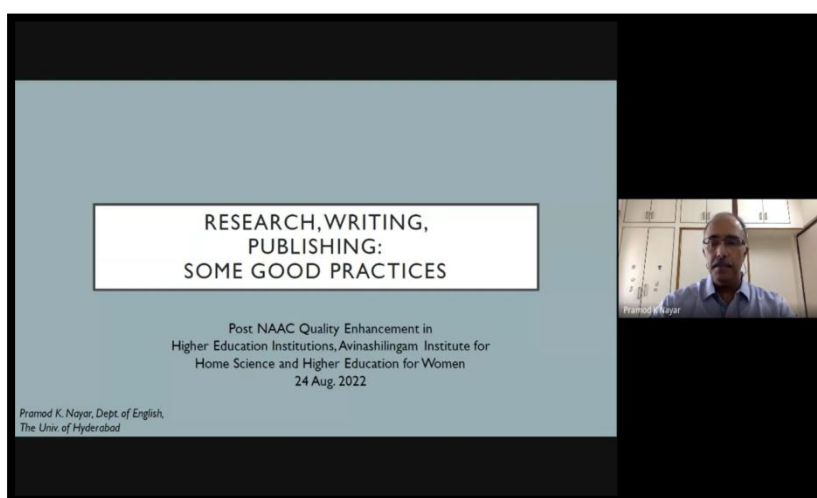
Dr. Pramod K Nayar pinpointed key ethical principle to be considered while studying literature and culture. They prominent among the ideas suggested by the speaker were respect for individuals, respect for vulnerable groups, respect for data, respect of others - cultural rights, memories etc and most important of all, respect for the public.

He emphasized on ‘Ethics and Interpretation of Research’ because different theoretical positions allow for different interpretations of the same materials. He also gave useful web links for further study in ‘Research Ethics’.

During the second part of this talk on ‘Journal and Publishing’ he gave insights into the key aspects of publication. The importance of peer review was emphasised. The author should have clarity of the methodology adopted in the research paper. Identifying journals in core areas of your research is of immense importance. The author should be vigilant and avoid predatory journals

The key points to be considered with care before publishing in any journal are details regarding the journal back issue, what do journals says about them, journal metrics and reading the published papers.

He mentioned the two prominent journal finder sites namely think. check. submit and Journal finder (Elsevier). He also discussed about scholarly journals and mentioned the criteria for identifying good scholarly journals namely longevity, publishers, editors, editorial board members, contributor and indexing database. He pinpointed on how to write essays for journals and mentioned the key points to be considered for scholarly writing. He also discussed the organization and structure of an essay.



Session 12:

Panel Discussion

“Application of Qualitative Research Study Designs in Humanities and Social Sciences”

Moderator

Dr. Caven McLoughlin,

Professor, Life span Development & Education Sciences, Kent University, Kent, USA.

Panelists

1. **Dr. Kirthi Gupta,**
IQAC Director & Professor in Research Methodology & Quantitative Techniques, IMED, BVDU Pune,
2. **Dr. Shubhada Nagarkar,**
Associate Professor, Department of Library & Information Science, Coordinator, Centre for Publication Ethics, Savithri Phule, Pune University
3. **Dr. S. Gandhimathi**
Professor & Head, Department of Business Administration, AIHS & HEW, Coimbatore
4. **Dr. J. Arthi**
Professor & Head, Department of Business Administration, AIHS & HEW, Coimbatore.

Dr. Caven McLoughlin

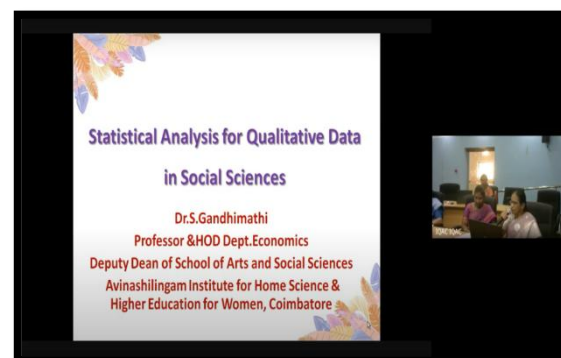
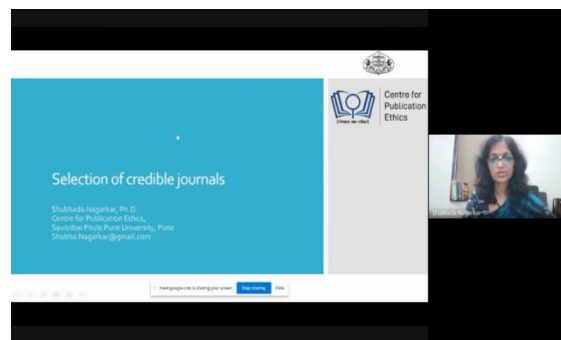
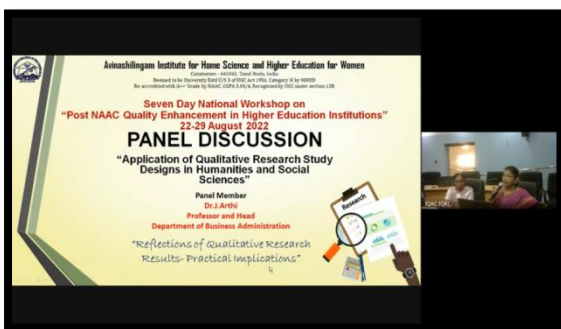
- Professor McLoughlin gave introduction about the talk and panellists.
- He requested the panellists to identify quality and its measurable indicators to which the faculty will engage the researchers in a meaningful research work. Also he added that the university ranking depends on the publishing of a research work in a credible journal.

Dr. J. Arthi stated that any research should commence with a new idea, to identify the problem and then to provide the solution which solves the issues globally. Qualitative research is better than Quantitative research. She shared her experience on working in a project related to promoting incubators in an academic institution. She identified the problems which affects the area of work. To address the problems identified she came up with solution with support of authorities namely “Student Entrepreneurship Stimulator Model”, which resulted in joint or collaborative work between Corporate & HEIs. She pointed out that her research never stopped, it is still continuing and undergoes improvisations.

Dr.Shubhada Nagarkar introduced different database of journals and highlighted credible databases for publications. The following points were discussed in detail by the speaker. Identifying the Journal is an important task. Creating awareness on predatory journals with their characteristics is vital. The details regarding clone and hijacked journals were elaborated. The criterion to check the listed journals before choosing right journals were shared. Dr.Shubhada Nagarkar gave a glimpse of the journey against predatory journals. She concluded with cautions on paid and open access journals predatory journal

Dr S. Gandhimathi introduced qualitative and quantitative design and explained classification of variables. The statistical tools for qualitative data analysis namely ANOVA, Paired't' test with respect to non parametric test was discussed. She explained on the dummy variable model and quantitative variable models with their characteristics. She concluded with the statement that non parametric test are suitable in analysis of qualitative data free from distributional assumptions and dummy variable model is suitable for when dependent variable is quantitative and independent variables is combination of both.

Dr.Kirti Gupta highlighted the relevance of National Education Policy and Atma Nirbhar Bharat India and its relevance to the research. She pointed out the key challenges and the areas of importance in qualitative research with examples. A clear insight on phenomenological and ethnography with application was presented. She concluded by briefing on the ways to bring research to classroom.



Session 13:

Special Address

“Scientific Social Responsibility to achieve SDGs”

Dr.W.Selvamurthy

President, Amity Science, Technology & Innovation Foundation, Amity University

Dr W Selvamurthy stated that Hon'ble Prime Minister Shri. Narendra Modi pronounced the importance of Scientific Social Responsibility (SSR) on January 3, 2017 during the 104th Indian Science Congress held at Tirupati. He insisted that we should know about the needs of the society and we should contribute for the development of the society as scientists, researchers and academicians. Going beyond the role of our professional duty and serving the society can be termed as Scientific Social Responsibility. We always talk about Science to society but according to SSR, science is a two way connect - society to science and science to society. He also talked about 4 major stakeholders for SSR who would realise the implementation of SSR at national level which include beneficiaries, implementers, assessors and supporters. He also specified about the methods through which we can implement SSR, which includes:

1. Providing awareness lectures
2. Awareness through mass media
3. Teachings by scientist
4. Induction through internship
5. Mentoring of school students by scientist / professors
6. Skill development through training and workshop
7. Providing access to S & T Infrastructure to outside researchers
8. Demonstration etc

Benefits of SSR was also discussed and he stated that the impact is going to expand in a big way like skill development in updating scientific knowledge, increase in overall productivity and empowering women.

Linkage between SSR with SDGs was emphasised. There are 17 Sustainable development goals and they were put under 3 categories social, economic and environmental dimensions. These goals can also be achieved by SSR, for example SDG 2: Hunger, can be slowed down by increasing the productivity of food. Likewise all the

SDGs can be taken into consideration as SSR. The role of scientists in developing SSR which includes Consortium approach by creating scientific hubs and SAATHI program by Google in collaboration with Tata Trusts to promote digital literacy was highlighted. Role of academia in SSR includes promoting innovate eco system, motivating people, create an environment to facilitate living. Role of faculty in SSR includes focus on translational research, ideation to commercialization, improve design capabilities, technology application in teaching like AR, VR etc

Specific examples of SSR implementations were highlighted. It began with M.S. Swaminathan's Green Revolution' Begging Basket to-bread basket'. He explained and demonstrated many of the techniques proposed by DRDO. This includes trench cultivation technology (a simple structure for growing vegetables in extreme winters) and life-saving ventilators developed with scientific and social responsibility. DRDO also manufactures cochlea rim plants that are used to detect and classify cellular abnormalities, test first aid, and purify water. They have also developed many products during covid19, model villages in Ladakh and foster villages saboo and developed by DRDO.

Proposed by "Abdul Kalam PURA" also called SSR was also developed. ICMR has developed many diagnostic kits during Covid19, and CSIR has also developed various socially responsible products. Amity's contributions in SSR were also demonstrated by speakers whose projects included Rootonic, Agri-Photovoltaic, Herbal Mosquito Repellent, Reusable Water Purifier, Nano Embedded Green Technology Based Porous Concrete Pebbles, etc. He also supported the Amity Humanity Foundation-We also talked about Amitasha and Athulasha, who provide free education. They also have a committee radio, all programmed by students who are part of SSR. At the end of the session he gave some important suggestions, which are as follows:

1. Every annual report of your institution should have one component of SSR (or a chapter of SSR), data on what the college or university had done in terms of SSR.
2. Appraisal performance based assessment system should have a component of SSR. Each faculty to contribute to SSR, which includes evidence based assessment.

3. SSR activity to be part of the projects
4. 1-2 % of the budget can be allocated for SSR
5. University can adopt villages for rural development
6. Resource and infrastructure sharing should be opened to connect to school or other institutions
7. Project on extension, outreach should include societal relevance

The speaker specified that if these are followed by 2030, India would be among the top three countries in science and technology. He also concluded by saying that science must reach the rising aspirations of the people and a common man should know how his contribution to the budget is benefitting the society by using it for research and productive projects.



Post NAAC Quality Enhancement in Higher Education Institutions* from 22.08.2022-29.08.2022
at Avinashilingam Institute for Home Science and Higher Education for Women,
Coimbatore- Tamil Nadu

**Scientific Social Responsibility (SSR)
to achieve SDG's**

AMITY UNIVERSITY

Dr. W. Selvamurthy
Ph.D., D.Sc., FAMS, FABMS, FIMSA, FIANS, FIAY
President - Amity Science, Technology & Innovation Foundation (ASTIF)
Director General - Amity Directorate of Science & Innovation
Chancellor - Amity University, Chhattisgarh and
Chair Professor for Life Sciences
(Former Distinguished Professor, Director R&D(LS), DRDO)

William Selvamurthy

Day 4- 25.08.2022

**INFRASTRUCTURE &
LEARNING RESOURCES**

Infrastructure & Learning Resources

Session 14 & 15

Demonstration “Usage of Open Access E-Resources” & “IT/ICT Hard/ Software for Online Education”

Dr.B.S.Balaji

Professor, School of Biotechnology, JNU, New Delhi

Dr.Balaji discussed on definition and types of Open Education Resources (OER). He discussed the benefits of OER resources namely – teaching materials resources update, supplementing the lectures with free of cost, saving time and effort and ease of sharing.

He also highlighted the following limitations of OER:

- Quality and authenticity
- Gap between what is available and what is required
- Resource may be in different languages
- Common creative licenses are not described

He listed that details of the OER – MIT Courseware, Openstax.com, Libretex, Internet archives and Indian OER – ePGPathshala, National Repository Open Education resources, e-ShodhSindhu, National digital Library and Consortium of Educational Committee. He demonstrated usage of free online software like Hypatia, FOSSEE, OSCAR, Camtasia. He discussed on various types of license in OER. The effective usage of IT/ICT tools like Google Classroom, LMS, YouTube was highlighted and the demonstration on open shot video editor was done.

Session 16

Panel Discussion

“Green Infrastructure Planning and Implementation in HEIs”

Dr. Indira Chakroborthy

Professor, Faculty of Architecture and Planning, AKTU, Lucknow

Dr. Indira Chakroborthy spoke on the role of SGD’s in the Green infrastructure with respect to NAAC criteria 7. It is high time that we thought about alternative energy source like LED for reducing the consumption of energy. A clear picture on Waste management and segregation with insight view on how to deal with laboratory wastes was provided. She insisted on 5R – reduce, reuse, recycle, repurpose and refuse. It is vital to handle food waste and biodegradable materials in a proper manner. Green building with zero pollution is the need of the hour. Green practises like water conservation and recycling can benefit the globe in the long run.

Dr.B.S.Chaudhary

Professor, Department of Geophysics, Kurukshetra University

Dr.B.S.Chaudhary spoke about the use of geospatial technology for remote sensing and environmental management. He gave a detailed picture of the usage of RADAR, RISAT-1 satellites for forecast prediction and capacity building. The usages of drones for various productive activities were highlighted.

Session 17

Case Study

“Best Practices adopted in Infrastructure and Learning Resources”

Dr.P. Vatsalaswamy

Director, IQAC, Dr. D.Y. Patil Vidyapeeth, Pune

Dr.P. Vatsalaswamy highlighted on the need for excellent infrastructure and how it contributes to the delivery of quality education to students as the mode of teaching has undergone tremendous change. Meticulous planning and execution is required to provide good teaching and learning environment by upgrading of programme and enrichment of curriculum. There is paradigm shift which emphasis on ICT driven, robust transparent infrastructure.

Student Support and Progression

Session 18

Special Address

“Students Role in Achieving the sustainable Development Goals”

Prof S.P. Thyagarajan

Chancellor, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore

Prof S.P. Thyagarajan commenced the session by focussing on objective and genesis of SGDs. “Sustainable Development Goals or Global Goals”, was adopted by the United Nations in 2015 as a call for action by all countries to end poverty, protect the planet, and ensure that by 2030 all people enjoy peace and prosperity. He also detailed on 17 SDG's and its importance and pointed out that all 17 SDGs are integrated. Action in one area will affect outcomes in others, and that development must balance social, economic and environmental sustainability. The Universities have a critical role in the achievement of the SDGs and will also greatly benefit from engaging with SDGs. He briefed on how the universities can contribute to SGDs by focussing on the following area:

- Learning and teaching
 - providing students with the knowledge, skills and motivation to understand and address SDGs
 - providing in-depth academic or vocational expertise to implement SDG solutions; providing accessible, affordable and inclusive education to all
 - empowering and mobilising young people
- Research
 - Encourage and promote the SDGs as a topic of research within the university
 - Support the full spectrum of research approaches needed to address the SDGs, including interdisciplinary and transdisciplinary research
- Organisational governance and operations of the university
 - Institutional policies should be line in with SGDs – inclusive education
 - In annual report of the university, we must include the activities which are in line with SGDs
- External Leadership
 - Public engagement through schemes like NSS and CSS

He also said that we should encourage the students to become a part of Global Students Network. The vision and mission of Global Students Network were highlighted. The 12 workable SDGs in universities were discussed. He concluded the session by highlighting the fact that Avinashilingam Institute's Vision 2040 and proposed WE GIVE projects under the DST scheme are in line with SGDs.



Session 19

Debate

“Life skill and Vocational Educational Leads to Youth Empowerment”

Moderator

Mr.Che Prasanna

Director of Aram Porul, Coordinator of PGDHRM course of Live Loyola, Chennai

Mr.Che Prasanna commenced the debate by explaining life skills that help the person navigate through familiar, unfamiliar and challenging contexts with a sense of personal confidence, social conscience and professional competence.

Speaker

Ms.Ashwathi,

Journalist, Times of India

Ms.Ashwathi spoke on the importance and benefits of life skills to the students. Institutes should not merely produce human machines. Frequent skill based workshop should be conducted for students. She described on how school students and college students struggle to face their next phase of their life.

Ms.Pooja

Student, Department of Tourism Management, AIHS&HEW

Ms.Pooja spoke on “vocational training”. She emphasised on the need to focus more on skill development rather than academics. The students are unaware of resources available. Self confidence has to be developed among the students. Skill development has to begin from the home.

Ma .Karunambigai,
Ph.D Scholar, AIHS &HEW

Ma .Karunambigai spoke on “Women Empowerment through Life skills”. She insisted on women empowerment. Negative impact on women empowerment in social media was highlighted. Individual should possess self awareness, family awareness, self management and self emotional control. It is sensible to “Not build future for youth but prepare youth for the future” stated the scholar.

Dr.T.K.S. Lakshmipriya
Professor & Head, Department of Printing Technology, AIHS & HEW

Dr.T.K.S. Lakshmipriya highlighted on “Skill Training through Formal Education” through various skill training programmes conducted in the printing technology department how it helped the students to improve their skills.



Mrs.Aswathi
Journalist
Times of India

Ms. Pooja
Student
AIHS & HEW

Mrs.Karunambigai
Ph. D Scholar
AIHS & HEW

Dr. T.K.S Lakshmipriya
Professor
Dept of Printing Technology
AIHS & HEW

Session 20

Panel Discussion

Comradeship Building: the key to Alumni Engagement

Moderator

Dr.Xavier Mahimaraj

Former IQAC Director, Treasurer, Loyola Alumni association, Chennai

Panelists

1. Dr.P.Santhi

Professor & Head, Department of Commerce, AIHS & HEW

2. Dr.S.UmaMageshwari

Dean, Students Affairs & Professor in Food Service Management & Dietetics, AIHS & HEW

Dr. Xavier commenced the session and focussed on the idea of the importance of Alumni engagement in the NAAC assessment. High weightage is given for Alumni engagement in NAAC. Link between alumni and Alma mater is strengthened by the Alumni association. Alumni can act as mentors to current students and they are the ambassador of the institute across the world

Dr.Shanthi spoke elaborately on involving the Alumni in various activities. The Alumni participation is important for the reputation of an institute. Relationship building among alumni is very important. Emotion building and bonding which the students have during the study period must be maintained even after the end of the course. Young alumni and old alumni members have different kind of needs; therefore we have to plan the activities accordingly. Communication with alumni at department level should happen periodically. Opportunities can be given to Alumni in imparting skill training to the students,

Dr. Uma highlighted that the student and institution relationship does not end with course completion. It continues to evolve as needs and expectations change. Relationship is lifelong factor. Alumni are powerful ambassadors who possess wonderful nostalgic memories. Alumni engagement strategy brings tangible benefits to the institution. It creates a network of past students and also helps current students with course content, career advice and job prospects. The engagement with the alumni network should begin during student life itself. Students, alumni and faculty should be integrated in the Alumni network. It is vital to achieve synergy and keep alive the sentiments of alumni for alma mater. Ask for feedback from them periodically. Industry visit, Guest lectures, knowledge delivery, career insights, mentorship, reunion, get together, Alumni recruitment connect are vital to keep the Alumni network alive. Several communication channels, such as Social media can be the medium to share alumni news and university updates. Tagging alumni for can be mutually beneficial. Difficulties are more when connecting with the alumni network for women.

The bond can be kept alive by communicating details of Achievements, Ranking, events, laurels, university news, Alumni stories through social media. The institution

should design the strategy around the needs of the alumni. Instant communication is very important. Special consideration for alumni, during admissions can be an added advantage for alumni networking. “Collect, communicate, Camaraderie” this can maintain the bond intact.

Dr. Xavier consolidated and put forth his view points. For any successful institute, Alumni engagement makes the difference. Their inputs in Curriculum aspects, BOS, Academic Council, Teaching, learning and evaluation methodologies can be beneficial. Their feedback would be of great value.

The examples of institutes who are successful due to alumni were cited. Alumni can contribute as mentors in orientation program and regular sessions. They can be the employers to our students. Academic collaborations, MoUs, Chairs, Endowments, scholarships can be strengthened with alumni participation.

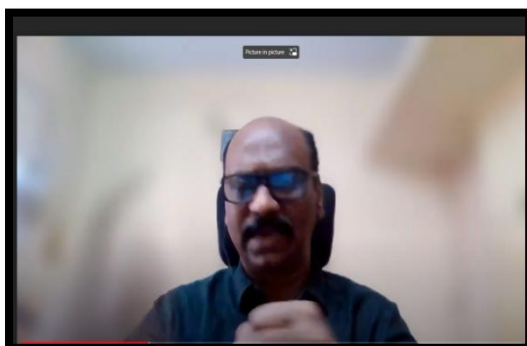
It is vital to strategize and communicate. Create a separate website for Alumni and update regularly. Use Social media to connect and recognize alumni as experts, employers, this will add value to them. Charting out Alumni initiatives in a customized manner gives a sense of satisfaction, belonging, and a feel of giving back to Almamatar. Touch the heart of students while they are in campus, then they will come back with nostalgic memories.



Panel discussion on “Comradeship Building: the key to Alumni Engagement”



Dr. S. Uma Mageshwari
Dean, Student Affairs
Professor, Dept. of FSMD, AIHS & HEW



Dr. Xavier Mahimaraj
Former IQAC Director, Treasurer,
Loyola Alumni Association, Chennai



Dr. P. Santhi
Professor, Department of Commerce
AIHS & HEW

Session 21

Special Address

“Promotion of Gender Equity in HEIs”

Mr. Vishal Vaswani

Emergency Officer, UNICEF India

Mr. Vishal Vaswani commenced the session by interaction with the audience. He stated that women work more than men and it is mandatory to change the gender bias thinking, perception and narration. Forty Nine percent of Indian population constitute of women but their contribution to economic output is only 18 percent. They also faced additional mobility restrictions and they also spent 4-5 hours per day on unpaid household and care giving work compared to 30 minutes for men. He listed out the reasons on why women are vulnerable. They have less access to resources; they are primarily responsible for domestic duties. Low visibility, less freedom and lack of facilities for reproductive and sexual health are hindrances faced by women.

He specified the challenges faced by women in emergencies (medium to long term) which include loss of family members, issues of protection, loss of home, cultural values, access to relief and health and access to information. The different forms of violence faced by women are physical violence, sexual violence, psychological violence and economic violence. The need for gender equality in SDGs, such as SGD- 5 ensures education system to ensure gender equality. Women progression in the Indian Scenario is visible clearly, women enrolled in higher education was only 10 percent at the time of independence and has raised to 48.6 percent in 2018-2019. Today, some of the major challenges faced by women include amenities, attitudinal barriers, social mind-set, low self-confidence, financial constraints, lack of safe accommodation, inappropriate training environment, low prospect of decent works etc.



Session 22

Case study

“Best Practice adopted in Student support and Progression”

Dr. A. Krishnamoorthy

IQAC coordinator, SASTRA Deemed University, Thanjavur.

Dr. Krishnamoorthy began the session by giving a brief introduction about SASTRA University. He highlighted the “Guiding model-Vision 2025”, which included Flipped classrooms, E-content creation, Centre for differently-abled. Various domains that are related to the student support and progression are curricular reforms, pedagogy, evaluation process and reforms, research promotion policies, catering to student diversity, campus life and strategies for e-governance. The concepts of academic flexibility, mentoring, scholarships and awards, career guidance, training and placement, capacity building and enhancement, Alumni association were discussed in detail. He stressed on contemporary curriculum which includes teaching – learning process, teacher profile and quality, student enrollment and profile.

The importance of student centric learning and digital pedagogy, in enhancement of student support and progression were emphasized. A holistic curriculum includes project based assessment, track based electives, research credits, and choice based credit system. Facility for credit transfer such as SWAYAM, semester abroad programme, will enhance the student progression.

The alternative reforms in evaluation process among students, emphasizing on direct and indirect evaluation was emphasized. Promoting participation in national mission projects would be highly beneficial. Informal discussion among teachers and students can enhance mentorship of students. Offering scholarships for students with good academic proficiency and development of student welfare funds can be of immense support to the deserving students.

National scholarship portal, Gate scholarship, Dr.B.RAmbedkar merit recognition scheme and Tamil Nadu education trust renewal scheme are some government schemes which are open to meritorious students.

The life skills are of vital importance in the current scenario. The institution should prepare the students for the competitive exams; this can enhance the opportunity and potential of the students. Alumni networking and active involvement and engagement of students in various student clubs and social media activities can offer them good exposure and enhance the skill levels. He highlighted the vision and mission of SASTRA deemed university. The session concluded with the reply to their queries of the participants.



Day 6- 27.08.2022

**GOVERNANCE, LEADERSHIP &
MANAGEMENT**

Governance, Leadership and Management

Session 23

Hands-on- Training “5S Implementation in Administration”

Mr.A.R.Lakshmanen

Head, Training and Development Propel Industries

Pvt. Ltd. Coimbatore

Mr.Lakshmanen highlighted on 5S which are

- Seiri - sort
- Seiton – set in order
- Seiso - shine
- Seiketsu - standardize
- Shitsuke– sustain



He emphasized on quality, productivity and self discipline of an employee which will increase productivity. The four competencies of emotional intelligence namely self-awareness, self-management, social awareness and relationship management are of immense importance in administration. He insisted on significance of attendance, accountability and safety in the work environment.

Session 24

Panel Discussion

“IQAC: The Nerve centre of Quality Assurance”

Moderator

Dr. Prashanth R. Nair

Vice Chairman, IQAC, Amrita Vishwa Vidyapeetham, Coimbatore

Dr.Prashanth R. Nair emphasised on the role of IQAC in NAAC assessment. The institution should create a benchmark based on its own strength. The quality control bodies of higher education namely AAA, AQAR, NAAC and NBA will be merged in near future.



Panel discussion on “IQAC: The Nerve centre of Quality Assurance”



Dr.N. Ponpandian
Professor & Head, Department of
Nanoscience& Technology, Bharathiar
University Coimbatore



Dr. R. Venkatachalapathy, Director,
IQAC, Periyar University, Salem

Dr.N. Ponpandian stated that updating curriculum is a way to update bio-data. Updating staff profile collectively updates the institution profile in one go. Importance of research, projects, publications, patents and innovative product were emphasised. IQAC is a suggestion provider and management has to approve and implement those suggestions in the institution. IQAC should frame the vision, mission, short term, midterm and long term goals for the institution. IQAC is now become a system not just quality assurance cell.

Panellist 2

Dr.R. Venkatachalapathy

Director, IQAC, Periyar University, Salem

Dr.R. Venkatachalapathy highlighted the operational challenges faced and solution to sort in educational institution. Accountability and transferability are important for coordinators. Filling up of vacancy and promotion of faculties should be done periodically. It is vital to have a good student: teacher ratio. Increasing courses and programmes can develop the institution.

The moderator asked the panellists to share their views on “How Gap between manual and real time situation can be solved?”

Dr.N.Ponpandian gave some examples on where we are facing difficulties namely in the feedback of stakeholder and consultancy. The academic institutions focus more on academics and not product development. Teachers have to look into administration duties, instead of spending more time on teaching and research. The funding agencies mainly focus on product development not on a basic research. The institutions are facing difficulties in identifying best practices and at many instances NAAC peer team members are not ready to accept the best practices projected by institutions.

Session 25

Case Study

“Best Practice adopted in Governance, Leadership and Management”

Dr. Prasant R Nair

Vice Chairman, IQAC, Amrita Vishwa Vidyapeetham, Coimbatore

Dr. Nair stated that ‘Best practice is a practice that has been followed consistently for a decent amount of time, it should give outcomes which is measurable and ideally should encompass more than one criteria and best practice should be aligned to the vision. He gave examples of best practices followed in his Institution:

1. Department academic advisory committee
 - Constituted for effective implantation of OBE process and guidance of academic matters such as vision and mission, PEO, PO and PSO, Curriculum design & syllabus, quality of teaching-learning evaluation, course and program outcome attainment, curricular projects, students mobility, overall continuous improvement of academic process
 - Checking syllabus completion against the course plan
 - Teaching pedagogy, materials, method and tool used
 - Feedback from the students
 - Actual CO attainment and marks analysis
 - Difficult level of the question in the periodical texts
2. Publication coordinators are assigned for each department and their role involves
 - affiliation and plagiarism checking in manuscript
 - Checking the indexed status
 - Coordination of the paper approval
 - Fixing targets



Dr. Prasant R Nair,
Vice Chairman, IQAC
Amrita Vishwa Vidyapeetham,
Coimbatore

Day 7- 29.08.2022

**INSTITUTIONAL VALUES &
BEST PRACTICES**

Institutional Values and Best Practices

Session 26

“Globalization, Gender & Development”

Dr. V. Bharathi Harishankar, Vice Chancellor – AIHS & HEW, Coimbatore

Dr. Bharathi Harishankar described about the Sustainable Developmental Goals especially about the 6th Developmental goal which emphasises on Gender equality. The need for equal access and enabling the disadvantaged group to the advantaged group can bring in Gender equality.

The concept of Globalisation of Gender Equality was discussed in detail. Men and women face the different difficulties so putting them in an incomprehensive term is not accurate. Development and Globalisation will take place only with the ability and availability of the resources for the development. Development will take place only with the individual necessity and societal necessity. She stated that “Sustainable Developmental Goals is an essential element”.

Dr. Bharathi Harishankar shared her opinions on the following aspects

- Employment of Educated women.
- Thoughts like “Family first and Career next” is a crack in the development and globalisation.
- Support given for the education but no awareness on financial independence where the non-academic factors play a major role.
- Gender differential approach for the development of women.
- Local realities should be taken into account for the globalisation and development.
- Distribution of labour force based on the sector
- Providing the value to the informal sectors and unpaid care workers

Various women welfare schemes such as

- IT sectors providing nursing breaks which will increase the productivity.
- M.S. Swaminathan -on the women’s work on the agriculture.
- Record on the Microfinance to SHG which will show large impact on the livelihood
- Distribution of unpaid works between Men and Women.
- Gender is not only the factor that affects the shift from the welfare to well being

were discussed. She also gave detailed description on how to balance the individual capabilities and societal capabilities and also homogenisation tendency for the Globalisation agenda.



Dr. V. Bharathi Harishankar
Vice Chancellor
AIHS & HEW, Coimbatore

Session 27

Panel Discussion

“Contemporary Waste Management Practices”

Moderator

Dr. Shyamala Mani

Professor (Retd) National Institute of Urban Affairs, Programme Director- Centre for Environment Education

Dr. R. Nithya

Associate Professor & Head, Department of Civil Engineering, AIHS & HEW

Dr. T. Rajesh

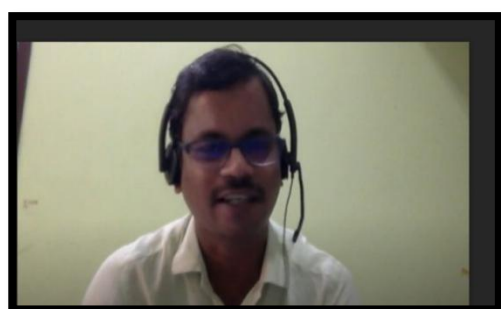
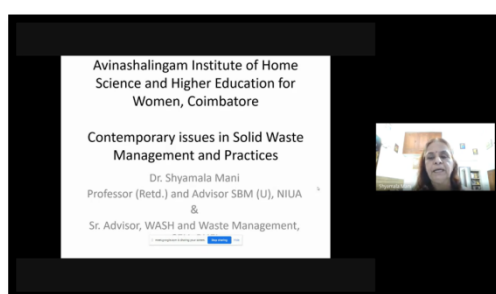
Scientist, CSIR, Chennai

Dr. Shyamala Mani discussed elaborately on classification of the waste generation areas. The Impact of unscientific waste management – health hazards, air, soil and water pollution, green house gas emission and global warming were highlighted. Waste is not utilized efficiently.

Some of the major challenges faced in India are collection and dumping without segregation. Plastic waste polluting soil, water and air is a major threat. E-waste, Domestic and hazardous waste can damage the environment beyond repair.

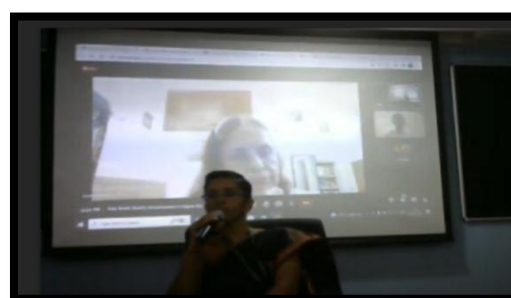
Dr. R. Nithya stated that 95 % of the construction and demolition waste can be recycled. The focus on 5R- reduce, reuse, recycle, repurpose and refuse can solve the problem of pollution. Smart waste management is the need of the hour. Different technology adopted in international countries such recycling apps, kiosks, Solar powered trash compactors can be adopted in India as well.

Dr. T. Rajesh spoke on the Inventory for wastes. High standards for disposable of wastes are essential to solve the problem. Disposable and handling of mercury wastes is a real challenge. Everyone should focus on how to reduce green house emission gas.



Dr. T. Rajesh

Scientist, CSIR, Chennai



Dr. E. Nithya

Asso. Prof. & HoD, Department of Civil Engineering, AIHS & HEW, Coimbatore

Session 28

Experience Sharing

“Best Practices of HEIs”

Dr. B.S Ponmudiraj

Advisor, NAAC, Bangalore

Dr. B.S Ponmudiraj gave a brief description about the best practices in Higher Education Institutions. He focussed on the evaluation procedure of NAAC and origin of NAAC evolution. The formulation of the criteria for the evaluation was discussed in detail. On “1st April 2017- the Revised the accreditation framework” was adopted. The benchmark of the best practices expected by NAAC was highlighted.

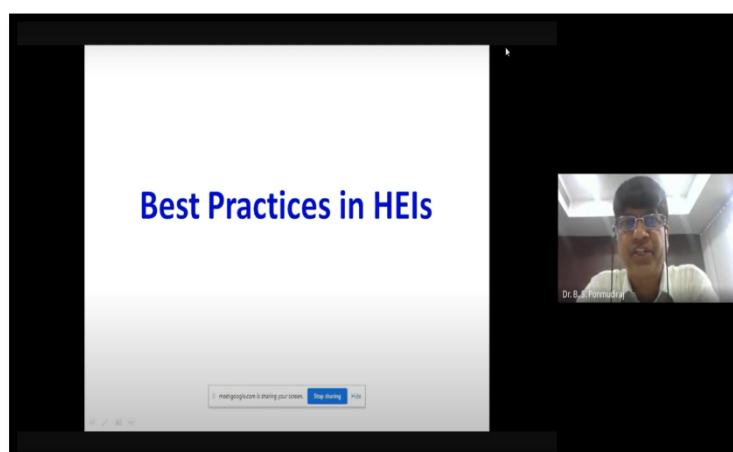
He gave general definition of best practices and mentioned their criteria in brief.

Criteria of NAAC for healthy practices include

- Curriculum aspects
- Teaching – Learning and evaluation
- Research, Innovation and extension
- Infrastructure and learning resources
- Student support and progression
- Governance, Leadership and Management
- Institutional value and best practices.

Best Practices should be well established in the professional sense. Good database collection of the reports on NAAC assessment is vital. Every institution should go through the 13 publicly available best practices documents, to understand the best practices.

The speaker gave examples for all the criteria and explained about all the criteria in a systematic way. He finally a gave detailed description on forming the syllabus, based on the needs and forming the curriculum based on the syllabus.



Dr. B.S Ponmudiraj
Advisor, NAAC Bangalore

Session 29

Valedictory of the Seven day workshop

Dr. K. Arockia Mariachelvi, Assistant Coordinator, IQAC delivered the welcome address. Dr. S. Kowsalya, Registrar gave the valedictory address. Special address was delivered by Dr.Sujatha, SDG Associate, Planning and Development Department, Government of Tamil Nadu

Dr.Sujatha highlighted the genesis and objectives of Sustainable Developmental Goals. She talked about the goal wise position of Tamil Nadu in SGD index which is 3.0. She pinpointed that goal wise position of Tamil Nadu in SGD index 3.0 namely 'No Poverty, Zero Hunger, Good Health & Well Being, Gender equality and Affordable & Clean Energy' are increasing on comparison to previous years. In case of GD index 3.0 'Quality education, clean Water & sanitation and Decent work and Economic growth' is decreasing. Tamil Nadu is best performing state in SGD index, 'No Poverty" on comparison with all states of India. She also told that the higher Education Institutes should take on stronger role to tackle the world's most pressing issue as outlined in the SDG. She highlighted about the universities ranking with respect to SDG.



Distribution of Certificates

The certificates were distributed to the participants by Dr. S. Kowsalya, Registrar, AIHS & HEW, Coimbatore. Seven day workshop came to an end up with vote of thanks by Dr.K.Kalaiselvi, Assistant Dean, Sponsored Research, AIHS & HEW, Coimbatore.



Welcome
Dr.K. Arockia Maraichelvi
IQAC Assistant Coordinator
AIHS & HEW, Coimbatore



Vote of Thanks
Dr.K. Kalaiselvi
Assistant Dean, Sponsored Research,
AIHS & HEW, Coimbatore



Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under category 'A' By MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC under section 12 B
Coimbatore-641 043, Tamil Nadu, India



Seven day National Workshop on
Post NAAC Quality Enhancement in Higher Education Institutions
Certificate of Participation

This is to certify that **Mrs. Sreelatha P.**
Assistant Professor, Sree Swamy Vivekananda Centre of Teacher Education, Ottapalam, Kerala

has participated through online in the **Seven Day National Workshop on**
"Post NAAC Quality Enhancement in Higher Education Institutions" organized by the Internal
Quality Assurance Cell of Avinashilingam Institute for Home Science and Higher Education
for Women in collaboration with National Assessment and Accreditation Council
from 22nd to 29th August 2022


Dr. U. Jerinabi
Coordinator, IQAC


Dr. S. Kowsalya
Registrar


Dr. V. Bharathi Harishankar
Vice Chancellor



Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD
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Coimbatore - 641 043, Tamil Nadu, India

Seven Day National Workshop on Post NAAC Quality Enhancement in Higher Education Institutions (22.8.2022 to 29.8.2022)

Outside Participants															
S.No.	Name Details	22.8.22 (FN)	22.8.22 (AN)	23.8.22 (FN)	23.8.22 (AN)	24.8.22 (FN)	24.8.22 (AN)	25.8.22 (FN)	25.8.22 (FN)	26.8.22 (FN)	26.8.22 (AN)	27.8.22 (FN)	27.8.22 (AN)	29.8.22 (FN)	29.8.22 (AN)
1.	Deepali Borthakur Assistant Director IQAC Assam Downtown University, Guwahati, Assam	DB 22/08	DB 22/08	DB 22/08	DB 22/08	DB 22/08	DB 22/08	DB 22/08	DB 21:50 am 25/08	DB 22/08	DB 22/08	DB 22/08	DB 22/08	DB 22/08	DB 22/08
2.	Dr. Anitha C Kumar Professor School of Chemical Sciences, Mahatma Gandhi University, PD Hills PO, Kottayam, Kerala	ACK 22/08	ACK 22/08	ACK 23/08	ACK 23/08	online	online	online	online	online	online	online	online	online	online
3.	Dr. Vidhya K Assistant Professor LEAD College of Management, Palakkad, Kerela	VK 22/08	VK 22/08	VK 23/08	VK 23/08	online	online	online	online	VK 26/08	VK 26/08	VK 27/08	VK 27/08	VK 29/08	VK 29/08
4.	K.Aravind Kumar Assistant Professor Dept. of CSE, Manonmaniam Sundaranar University, Tirunelveli	online	online	online	online	online	online	online	online	online	online	online	online	online	online
S.No.	Name	22.8.22	22.8.22	23.8.22	23.8.22	24.8.22	24.8.22	25.8.22	25.8.22	26.8.22	26.8.22	27.8.22	27.8.22	29.8.22	29.8.22



Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD
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Participants from Avinashilingam Institute for Home Science and Higher Education for Women															
1.	Bindu J R Assistant professor Dept. of Music	<i>Bindu</i>	<i>Bindu</i>	<i>Bindu</i>	<i>Bindu</i>	<i>Bindu</i>	<i>Bindu</i>	<i>Bindu</i> 9:20 AM	<i>Bindu</i> 2:45 pm	<i>Bindu</i> 9:15 am	<i>Bindu</i> 3:40 pm	<i>Bindu</i> 9:15 am	<i>Bindu</i> 7:20 pm	<i>Bindu</i> 9:15 am	<i>Bindu</i> 2:05 pm
2.	Dr T.Nagammal Assistant professor Department of Tamil	<i>T.N</i>	<i>T.N</i>	<i>T.N</i>	<i>T.N</i>	<i>T.N</i>	<i>T.N</i>	<i>T.N</i> 9:30	<i>T.N</i>	<i>T.N</i>	<i>T.N</i>	<i>T.N</i>	<i>T.N</i>	<i>T.N</i>	<i>T.N</i>
3.	P .Jagathambal Assistant Professor Department of Human Development	<i>PJ</i>	<i>PJ</i>	<i>PJ</i>	<i>PJ</i>	<i>PJ</i>	<i>PJ</i>	<i>PJ</i> 9:10 am	<i>PJ</i>	<i>PJ</i>	<i>PJ</i>	<i>PJ</i> 9:20	<i>PJ</i>	<i>PJ</i> 9:25	<i>PJ</i>
4.	Dr. S.Amutha Assistant Professor Department of Botany	<i>SA</i>	<i>SA</i>	<i>SA</i>	<i>SA</i>	<i>SA</i>	<i>SA</i>	<i>SA</i> 9:20 am	<i>SA</i>	<i>SA</i>	<i>SA</i>	<i>SA</i>	<i>SA</i>	<i>SA</i>	<i>SA</i>
5.	Dr.D.Vennila Assistant Professor(SG) Department of Commerce	<i>DV</i>	<i>DV</i>	<i>DV</i>	<i>DV</i>	<i>DV</i>	<i>DV</i>	<i>DV</i> 9:30	<i>DV</i>	<i>DV</i> 9:30	<i>DV</i>	<i>DV</i> 9:30	<i>DV</i>	<i>DV</i> 9:30	<i>DV</i>
6.	Dr.C.Parvathi Associate Professor Department of Economics	<i>CP</i>	<i>CP</i>	<i>CP</i>	<i>CP</i>	<i>CP</i>	<i>CP</i>	<i>CP</i> 9:20	<i>CP</i>	<i>CP</i> 9:15	<i>CP</i>	<i>CP</i> 9:20	<i>CP</i>	<i>CP</i>	<i>CP</i>



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S.No.	Name Details	22.8.22 (FN)	22.8.22 (AN)	23.8.22 (AN)	23.8.22 (AN)	24.8.22 (FN)	24.8.22 (AN)	25.8.22 (FN)	25.8.22 (AN)	26.8.22 (FN)	26.8.22 (AN)	27.8.22 (FN)	27.8.22 (AN)	29.8.22 (FN)	29.8.22 (AN)
12.	Dr.S.Thilagamani Assistant Professor SG Department of Food Service Management and Dietetics	Study	Study	Study	Study	Study	Study	Study 9.28	Study	Study 9.20	Study	Study 9.25	Study	Study 9.20	Study
13.	Vaijayanthi,R Assistant Professor(SG) Department of Education	B 22/8/22	B 22/8/22	B 23/8/22	B 23/8/22	B 24/8/22	B 24/8/22	B 25/8/22 9.30 AM	B 25/8/22	B 26/8/22 9.10 AM	B 26/8/22	B 27/8/22 9.20 AM	B 27/8/22	B 29/8/22 9.10 AM	B 29/8/22
14.	A. Arulmozhi Associate Professor Dept. of Printing Tech., School of Engineering	CP 22/8/22	CP 22/8/22	CP 23/8/22	CP 23/8/22	CP 24/8/22	CP 24/8/22	CP 25/8/22 9.55	CP 25/8/22	CP 26/8/22 9.25 AM	CP 26/8/22	CP 27/8/22 9.30 AM	CP 27/8/22	CP 29/8/22 9.28 AM	CP 29/8/22
15.	Dr.B.Nalini Assistant Professor of Physics Department of Physics	B.Wall 22/08/22	B.Wall 22/08/22	B.Wall 23/08/22	B.Wall 23/08/22	B.Wall 24/08/22	B.Wall 24/08/22	B.Wall 25/08/22 9:37 AM	B.Wall 25/08/22	B.Wall 26/08/22 9:10 AM	B.Wall 26/08/22	B.Wall 27/08/22 9:00 AM	B.Wall 27/08/22	B.Wall 29/08/22 9:30 AM	B.Wall 29/08/22
16.	Dr K Sathiyabamavathy Assistant Professor Department of Tourism Management	B	B	B	B	B	B	B 9:32	B	B 8:55	B	B	B	B 9:02	B



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17.	Akila S Assistant Professor Department of Clinical Psychology	<i>By</i>	<i>By</i>	<i>By</i>	<i>By</i>	<i>By</i>	<i>By</i>	<i>By</i> 9.30am	<i>By</i>	<i>By</i> 9.00am	<i>By</i>	<i>By</i> 9.32am	<i>By</i>	<i>By</i> 9.30am	<i>By</i>
18.	Dr S. Meenakshi Assistant Professor Department of Home Science Extension Education	<i>Meenakshi</i>	<i>Meenakshi</i>	<i>Meenakshi</i>	<i>Meenakshi</i>	<i>Meenakshi</i>	<i>Meenakshi</i>	<i>Meenakshi</i>	<i>Meenakshi</i>	<i>Meenakshi</i>	<i>Meenakshi</i>	<i>Meenakshi</i>	<i>Meenakshi</i>	<i>Meenakshi</i>	<i>Meenakshi</i>
19.	<i>Dr. Amudha Devi N.V.</i> Aathisha S <i>CSS</i> Assistant Professor- Department of Physiotherapy <i>Psychology</i>	<i>N.V.</i>	<i>N.V.</i>	<i>N.V.</i> 23/8/22	<hr/>										
20.	Dr T Shanmugavalli Associate Professor Department of Physical Education	<i>Tshwall</i> 22/8/22	<i>Tshwall</i> 23/8/22	<i>Tshwall</i> 23/8/22	<i>Tshwall</i> 23/8/22	<i>Tshwall</i> 24/8/22	<i>Tshwall</i> 24/8/22	<i>Tshwall</i> 25/8/22 9.30am	<i>Tshwall</i> 25/8/22 1.30pm	<i>Tshwall</i> 26/8/22 9.25am	<i>Tshwall</i> 26/8/22	<i>Tshwall</i> 27/8/22 9.25am	<i>Tshwall</i> 27/8/22	<i>Tshwall</i> 29/8/22	<i>Tshwall</i> 29/8/22
21.	Dr.R.Ahila Assistant Professor, Department of Computer Science and Engineering	<i>Rahil</i> 22/8/22	<i>Rahil</i> 22/8/22	<i>Rahil</i> 23/8/22	<i>Rahil</i> 23/8/22	<i>Rahil</i> 24/8/22	<i>Rahil</i> 24/8/22	<i>Rahil</i> 25/8/22 9.20 AM	<i>Rahil</i> 25/8/22 2.30 PM	<i>Rahil</i> 26/8/22 9.10 am	<i>Rahil</i> 26/8/22	<i>Rahil</i> 27/8/22 9.10am	<i>Rahil</i> 27/8/22	<i>Rahil</i> 29/8/22 9.10am	<i>Rahil</i> 29/8/22
22.	M Ramya Devi Assistant Professor Department of Civil Engineering.	<i>M Ramya Devi</i> 22/8/22	<i>M Ramya Devi</i> 22/8/22	<i>M Ramya Devi</i> 23/8/22	<i>M Ramya Devi</i> 23/8/22	<i>M Ramya Devi</i> 24/8/22	<i>M Ramya Devi</i> 24/8/22	<i>M Ramya Devi</i> 25/8/22 9.35am	<i>M Ramya Devi</i> 25/8/22 1.33pm	<i>M Ramya Devi</i> 26/8/22 9.27am	<i>M Ramya Devi</i> 26/8/22	<i>M Ramya Devi</i> 27/8/22 9.33am	<i>M Ramya Devi</i> 27/8/22	<i>M Ramya Devi</i> 29/8/22 9.35am	<i>M Ramya Devi</i> 29/8/22



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23.	S.Gowri Assistant Professor Department of BMIE, School of Engineering	22/8/22	22/8/22	23/8/22	23/8/22	24/8/22	24/8/22	25/8/22 9:00 AM	25/8/22	26/8/22 9:00 AM	26/8/22	27/8/22 9:10 AM	27/8/22	29/8/22 9:15 AM	29/8/22
24.	K V Archana Assistant Professor Department of ECE	22/8/22	22/8/22	23/8/22	23/8/22	24/8/22	24/8/22	25/8/22	25/8/22	26/8/22	26/8/22	27/8/22	27/8/22	29/8/22	29/8/22
25.	Dr.G.Shanthi Associate Professor Department of Hindi	22/8/22	22/8/22	23/8/22	23/8/22	24/8/22	24/8/22	25/8/22 9:50	25/8/22	26/8/22	26/8/22	27/8/22 9:50 AM	27/8/22	29/8/22	29/8/22
26.	G. Sudhamathy Assistant Professor (SS) Department of Computer Science	22/8/22	22/8/22	23/8/22	23/8/22	24/8/22	24/8/22	25/8/22 9:10 AM	25/8/22	26/8/22 9:15 AM	26/8/22	27/8/22 9:15 AM	27/8/22	29/8/22 9:10 AM	29/8/22
27.	A.Sumii Assistant Professor Department of Information Technology School of Engineering	22/8/22	22/8/22	23/8/22	23/8/22	24/8/22	24/8/22	25/8/22 9:20	25/8/22	26/8/22 9:10 AM	26/8/22	27/8/22 9:15 AM	27/8/22	29/8/22 9:30 AM	29/8/22



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	Assistant Professor, Dept. of Botany	22/8/22	22/8/22	23/8/22	23/8/22	24/8/22 FN	24/8/22 AN	25/8/22 9:25am	25/8/22	26/8/22 9:25am	26/8/22 AN	27/8/22 9:25am	27/8/2022 AN	28/8/22 9:20am	29/8/22
34.	Dr.U.Ratna, Assistant Professor (SG), Dept. of Textiles and Clothing	Ratna 22/8/22	Ratna 22/8/22	Ratna 23/8/22	Ratna 23/8/22	Ratna 24/8/22	Ratna 24/8/22	Ratna 25/8/22 9:25am	Ratna 25/8/22	Ratna 26/8/22 9:15	Ratna 26/8/22	Ratna 28/8/22 9:20am	Ratna 28/8/22	Ratna 29/8/22	Ratna 29/8/22
35. Mrs.	Dr.Ramya. P Assistant Professor, Dept. of Physician Assistant	Ramya 22/8/22	Ramya 22/8/22	Ramya 23/8/22	Ramya 23/8/22	Ramya 24/8/22	Ramya 24/8/22	Ramya 25/8/22 9:20am	Ramya 25/8/22	Ramya 9am	Ramya 9:30am	Ramya 9:20	Ramya 9:20	Ramya 9:20	Ramya 9:20
36.	Dr.M.Kavitha, Assistant Professor (SS) Dept. of Tamil	Kavitha 22/8/2022	Kavitha 24/8/2022	Kavitha 23/8/2022	Kavitha 25/8/2022	Kavitha 24/8/22	Kavitha 24/8/22	Kavitha 25/8/2022 9:25 am	Kavitha 25/8/2022	Kavitha 26/8/2022 9:10 am	Kavitha 26/8/2022	Kavitha 26/8/2022 9:10 am	Kavitha 26/8/2022	Kavitha 27/8/2022	Kavitha 29/8/2022

List of Online Participants

1.	Mrs.Smitha Mathew	Assistant Professor in Mathematics	Holy Family college of Education for Women, Palakkad	9947652921	Online	IRU2709951	8/17/2022
2.	Praseeda v	Assistant professor	Adisankara training college, Kerala	9947855267	Online	223092599170	8/18/2022
3.	Neeta Chandra	Assistant Professor	Tagore govt. College of Education, Middle Point, Port Blair, South Andaman 744101, a & n islands	9434276091	Online	223040226987	8/18/2022
4.	S.Nithya Roopa	Assistant Professor	Kumaraguru college of technology	9840837260	Online	222334279760	8/11/2022
5.	Ranjithkumar. M	Assistant Professor in Education	SreeNarayana Campus of Teacher Education, Kottappuram, Palakkad	9400731502	Online	223045780854	8/18/2022
6.	Sheethal M S	Assistant Professor	Global Indian International Institute, Adudhabi	9072330644	Online	223014903774	8/18/2022
7.	Amitha Mathew	Assistant Professor	Department of CSE, Rajagiri School of Engineering and Technology, Ernakulam, Kerala	09947530422	Online	223010527678	8/18/2022
8.	Gisha G R	Asst. Professor	SreeNarayanaGurukulam College of Engineering, Kadayiruppu, Kolenchery, Ernakulam, Kerala, India	9947635773	Online	223022839759	8/18/2022
9.	Nimmi M K	Assistant Professor	SNGCE, Kadayiruppu, Kerala	9895670322	Online	IMPS00209891216	8/18/2022
10.	Smitha K S	Associate Professor	SreeNarayanaGurukulam College of Engineering	+91 99611 62141	Online	223105196905	8/19/2022
11.	R.Thamilselvi	Research Scholar	Avinashilingam university	9940543212	Online	223100789687	8/19/2022
12.	S.Sangeetha	Assistant Professor	Hindusthan Institute of Technology, Coimbatore	9952602082	Online	223321937637	8/21/2022

13.	C.dhanya	Assistant Professor	Presidency University, Bangalore	9489776205	Online	223355436332	8/21/2022
14.	P K Meenakshi	Research scholar	Assistant Professor Department of Education Regional Institute of Education Mysore	07558120515	Online	T2208221814279523712389	8/22/2022
15.	Tijo Thomas	Assistant Professor	school of management and business studies, M G University	9995713007	Online	222482535043	8/12/2022
16.	R. Romela Elizabeth Preena	Assistant professor	KG college of Arts & Science	9442139325	Online	222868893666	8/16/2022
17.	SREELA.A.R	Assistant Professor	SN campus of Education, Pallakad	9495224426	Online	Google transaction ID CICAgJD4oZTqbg	8/17/2022
18.	Sreelatha.P	Assistant Professor	Sri Swami Vivekananda, Centre of future Education, Palakkad	9447950711	Online	CICAgJD40b3MEQ	8/17/2022
19.	K. Brindha	Coordinator	NGP Institute, Kalapatti, Coimbatore	09965064025	Online	222955661294	8/17/2022
20.	Gourilakshmi.N	Assistant Professor	IES College of Engineering, Thrissur	09847054363	Online	FDRLM8229147158	8/17/2022
21.	S.Nithya	ASSISTANT PROFESSOR	Dr.SNS College of Education, Coimbatore	9092525292	Online	222918305045	8/17/2022



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Internal Quality Assurance Cell
Cordially invites you for Hands on Training
on
Outcome Based Education
Implementation & Attainment

On
19th November 2022
at 2.00 p.m.

Dr. V. Bharathi Harishankar

Vice Chancellor

Avinashilingam Institute for Home Science and Higher
Education for Women, Coimbatore – 641 043

will Preside

Dr. N. Muthumani

Principal

PPG College of Arts and Science,
Coimbatore – 641 035

will deliver the Special Address



Venue: Academic Council Hall



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Coimbatore-641 043, Tamil Nadu, India

Internal Quality Assurance Cell

Organizes Hands on Training

on

**Outcome Based Education Implementation & Attainment
Programme**

Prayer

Welcome

Dr.U.Jerinabi
IQAC Coordinator

Introducing the Chief Guest

Dr.K.Arockia Maraichelvi
Assistant IQAC Coordinator

Presidential Address

Dr.V.Bharathi Harishankar
Vice Chancellor

Special Address

Dr.N.Muthumani
Principal
PPG College of arts and Science

Vote of Thanks

Dr.G.Padmavathi
Dean
School of Physical Sciences &
Computational Science



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Coimbatore - 641 043, Tamil Nadu, India

Internal Quality Assurance Cell organises

National Seminar on

Best Practices of Avinashilingam Institute fostering NAAC Assessment Criteria



Chief Guest

Smt. Anandiben Patel Ji
Hon'ble Governor, Uttar Pradesh

Date

28th September 2022 @ 10.00 am

Venue

Thiruchitrambalam Auditorium



Re-accredited by
NAAC with 'A++'
CGPA 3.65/4



Graded as Category-I University
Recognised Under Section 12B
by the UGC



Ranked 84
among Universities



ARIIA
ATL RANKING OF INSTITUTIONS
ON INNOVATION ACHIEVEMENTS

Ranked 5th under the University
(Govt. & Govt. Aided) (Technical)
Category



Granted Category A Status
by MHRD - Top most rating
for Deemed-to-be-Universities



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Coimbatore - 641 043, Tamil Nadu, India

Internal Quality Assurance Cell Cordially invites you for the National Seminar on Best Practices of Avinashilingam Institute fostering NAAC Assessment Criteria

Smt. Anandiben Patel Ji
Hon'ble Governor, Uttar Pradesh
will deliver the Inaugural Address

In the presence of
Dr. T.S.K. Meenakshisundaram
Managing Trustee
The Avinashilingam Education Trust

Wherein
Prof. S.P. Thyagarajan
Chancellor
Avinashilingam Institute for Home Science and Higher Education for Women
will deliver the Presidential Address

Dr. V. Bharathi Harishankar
Vice Chancellor
Avinashilingam Institute for Home Science and Higher Education for Women
will Greet

Date
28th September 2022 @ 10.00 am

Venue
Thiruchitrambalam Auditorium

Best Practices of Avinashilingam Institute fostering NAAC Assessment Criteria

Minute to Minute Programme

10.00 am	Guard of Honour
10.15 am	Prayer
10.20 am	Lighting the Lamp
10.25 am	Welcome Dr. S. Kowsalya , Registrar, AVINUTY
10.30 am	Presidential Address Prof. S.P. Thyagarajan , Chancellor, AVINUTY
10.40 am	Inaugural Address Smt. Anandiben Patel Ji , Hon'ble Governor, UP
11.10 am	Greetings Dr. V. Bharathi Harishankar , Vice Chancellor, AVINUTY
11.15 am	Release of Book & Journal
11.25 am	Presentation of Awards to Students
11.40 am	Vote of Thanks Dr. U. Jerinabi , Coordinator, IQAC, AVINUTY
11.45 am	Coffee Break

Technical Sessions

12.00 pm	Key Note Address - AVINUTY path towards SDG Prof. S.P. Thyagarajan , Chancellor, AVINUTY
12.15 pm	Special address - Implementation of NEP in AVINUTY Dr. V. Bharathi Harishankar , Vice Chancellor, AVINUTY
12.30 pm	Best Practice in Curricular Aspects <i>Multidisciplinary Approach to Curriculum Development</i> Dr. G. Padmavathy , Dean of Academics, AVINUTY
12.45 pm	Best Practice – Teaching-Learning and Evaluation <i>Technology Enriched Teaching-Learning Process</i> Dr. K. Arockia Maraichelvi , Associate Professor, Human Development, AVINUTY
1.00 pm	Best Practice – Research, Innovations and Extension <i>Quality Enhancement through R&D and Community Innovation among Students</i> Dr. P. Lalitha , Dean, Research and Development, AVINUTY
1.15 pm	Lunch
2.15 pm	Best Practice – Infrastructure and Learning Resources <i>A Model, Modern Learning Management System</i> Dr. P. Subhashini , Professor, Computer Science, AVINUTY
2.30 pm	Best Practice – Student Support and Progression <i>Dedicated Student's Counseling and Psychological Support Centre</i> Dr. Sudha , Asst. Professor, Psychology, AVINUTY
2.45 pm	Best Practice – Governance, Leadership and Management <i>Academic and Administrative Audit as a tool for Institutional Quality Enhancement</i> Dr. U. Jerinabi , Coordinator, IQAC, AVINUTY
3.00 pm	Best Practice – Institutional Values and Best Practices <i>Inculcation of Value Based Education & Life Skills</i> Dr. K. Ramya , Asst. Professor, Business Administration, AVINUTY
3.15 pm	Reflections
3.30 pm	Vote of Thanks Dr. K. Arockia Maraichelvi , Associate Professor, Human Development, AVINUTY
3.35 pm	National Anthem



Smt. Anandiben Patel Ji
Hon'ble Governor, UP

Profile

Parliamentary Life

Member of Rajya Sabha, 1994-1998. In 1998, was elected from the Mandal assembly constituency Ahmedabad, and became MLA. From 1998 to 2002, was the Minister of Education (primary, secondary, and adult) and Minister of Women & Child Welfare.

In 2002, became the legislator from Patan Vidhan Sabha constituency for the second time and proved the belief wrong that the Gujarat Education Minister cannot win consecutive elections. Was the Minister of Education (primary, secondary, and adult) and Minister of, Higher and Technical Education, Women and Child Welfare, Sports, Youth and Cultural Activity from the year 2002 till 2007. In the year 2007, became the legislator of Patan Vidhan Sabha constituency for the third time. From 2007 to 2012, she was the Minister of Revenue, Disaster Management, Road and Building, Capital Project, and Women and Child Welfare. In 2012, was elected for the fourth consecutive time MLA from the Ghatlodia assembly constituency in the Ahmedabad city and won the most votes in the state. She was the Minister of Revenue, Drought Relief, Land Reform, Rehabilitation, Reconstruction, Road and Building, Capital Project, Urban Development and Urban Housing from 2012 to 2014.

From 22nd May 2014 to 7th August, 2016, was the first woman Chief Minister of the Gujarat State. Was the Governor of Chhattisgarh from 15 August 2018 till 28 July 2019. Was the Governor of Madhya Pradesh from 23 January 2018 till 28 July 2019.

Political Activities

Joined politics in 1987. Held important posts in the BJP like the President of State Women's Front, Vice President for BJP's State Unit, Member of National Executive Council of BJP. Was the only woman from Gujarat to participate in the Ekta Yatra from Kanyakumari to Srinagar conducted by BJP. Despite the threats of terrorists, was involved in the flag hoisting at Lal Chowk in Srinagar on 26 January 1992.

Achievements during Chief Minister's Tenure

- ✓ Launched the "Maa Vatsalya" scheme to provide free treatment to the poor and middle class families.
- ✓ Launched the "Yuva Swavalamban" scheme to provide higher education for all poor students.
- ✓ Campaign for 100% ODF in Gujarat.
- ✓ Free toll tax (for non-commercial vehicles) in Gujarat
- ✓ Started free Cancer tests and treatment for all women.
- ✓ In order to enable Narmada water to reach the fields through canals and minor canals, successfully campaigned for unanimous land acquisition where there was unavailability of land for building of of canals.
- ✓ More than 100 town plans were sanctioned in the shortest time.
- ✓ Transparent implementation of Vidya Sahayak Yojana.
- ✓ Vidya Lakshmi Bond and Vidya Deep schemes were implemented.
- ✓ Mata Yashoda Award announced.
- ✓ Use of Technology for process simplification.
- ✓ Construction of village roads at a cost of Rs. 10,000 crores.

Honours and Awards

- ✓ During the schooling, 'Veer Bala' award in the year 1958 at the Mehsana District School Sports Festival.
- ✓ In 1988, 'Best Teacher' award in Gujarat.
- ✓ In the year 1990, was honored by the President of India with the 'Best Teacher' award at the national level.
- ✓ Gujarat Government's 'Gallantry Award' for saving two girl students of Mohinaba Kanya Vidyalaya, from being drowned in the Narmada River.
- ✓ 'Sardar Patel Award' by Patel Awakash Mandal, Mumbai in 1999.
- ✓ 'Vidya Gaurav' award by Shri Taptodhan Brahmin Vikas Mandal in the year 2000
- ✓ In the year 2005, the 'Patidar Shiromani' award by the Patel community.
- ✓ Ambu Bhai Old School of Exercise, Rajpipla
- ✓ "Charumathi Yoddha" Award.

Foreign Travel

- ✓ Member of the Indian Government Team for the Fourth World Women's Conference in Beijing (China).
- ✓ In the year 1996, travelled with the Indian Parliamentary Party to Bulgaria. Study tours of France, Germany, Holland, England, the Netherlands, America, Canada and Mexico etc were undertaken.
- ✓ In 2002, visited Namibia - South Africa with a team of Gujarat Branch of the Common Wealth Parliamentary Association for their 48th Conference.
- ✓ In May 2015, traveled to China with Gujarat's Business Delegation as Chief Minister along with Prime Minister Shri Narendra Modi.

Avinashilingam Institute for Home Science and Higher Education for Women
Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD
Re-accredited with 'A++' Grade by NAAC.CGPA 3.65/4, Category I by UGC
Coimbatore-641 043, Tamil Nadu, India



AIU – Avinashilingam Institute –
Academic and Administrative Development Centre
(AIU-AI-AADC)

Organises

Short Term Capacity Building Programme
on
Academic Leadership 5.0

20.02.2023 to 28.02.2023

Mode : Online

ABOUT THE INSTITUTE

Avinashilingam Institute for Home Science and Higher Education for Women - the epitome of higher education is one of the premier institutions in India well known for its commitment towards the empowerment of women through value based and holistic education. The institute follows educational ideals of Sri Ramakrishna, Holy Mother Sri Saradamani Devi, Swami Vivekananda and Mahatma Gandhiji. The institute is one of the significant contributions of Padma Bhushan, Dr. T. S. Avinashilingam, an illustrious educationist, freedom-fighter and Gandhian and Dr. Rajammal P. Devadas, the world- renowned nutritionist.

The institute had its humble beginning in the year 1957 as Sri Avinashilingam Home Science College for Women and has been conferred the Deemed to be University by MHRD in 1988. Few of the recent accolades of the Institute includes: A++ with CGPA of 3.65/4 by NAAC; 84th Rank in NIRF, 5th Rank under the category of 'University & Deemed to be University (Govt. & Govt. Aided) Technical' in ARIIA – 2021.

Presently, the institution is progressing towards 'beyond-excellence' under the able guidance and leadership of Dr.T. S. K. Meenakshi Sundaram, Managing Trustee, Avinashilingam Trust, Professor S. P. Thyagarajan, Chancellor, Dr. V. Bharathi Harishankar, Vice Chancellor and Dr. S. Kowsalya, Registrar.

ASSOCIATION OF INDIAN UNIVERSITIES – A BRIEF INTRODUCTION

Association of Indian Universities (AIU) is an apex inter university representative body of universities and other higher education institutions in the country. Established in 1925 as the Inter University Board (IUB) of India, it acquired its legal status as a registered society in 1967 under the Societies Registration Act 1860 and was rechristened as Association of Indian Universities (AIU) in 1973. AIU is the second oldest university association in the world next to the Association of Commonwealth Universities which was established in 1913.

It has the distinct feature of having the largest network of universities and other HEIs under its ambit with 926 members in India and 15 Associated members from foreign countries. The membership of AIU includes all types of universities e.g., Conventional Universities, Open Universities, Deemed to be Universities, State Universities, Central Universities, Private Universities and Institutes of National Importance.

In addition to Indian Universities, Universities / Institutes from Bangladesh, Bhutan, Republic of Kazakhstan, Malaysia, Mauritius, Nepal, Thailand, United Arab Emirates and United Kingdom are its Associate Members. Since its inception AIU has played a very significant role in the development of Education in the Country.

Some of the eminent scholars and visionary leaders like Dr Sarvepalli Radhakrishnan, Dr Shyama Prasad Mukherjee, Dr Zakir Hussain, Sir. A L. Mudaliar have given leadership to AIU. During such a long journey, AIU has carved a niche for itself by serving the Ministry of Education, Govt. of India as a research-based policy advisory body. Being an apex institution, it constitutes an integral part of all major decision-making committees and commissions in the country

As an academic 'think tank' organization, AIU supports the Government as research-based policy advisory body with the wider mandate of taking up research projects on higher education policy and capacity building. It also acts as a bureau of information on higher education; liaise with international bodies and universities for internationalization of Indian higher education among many others. The Vision of AIU is to emerge as a dynamic service and apex advisory organization in India by undertaking initiatives and programmes which could strengthen and popularize Indian higher education as leading-edge system in the world and promote greater national and international collaboration in Higher Education, Research, Extension, Sports, Youth and Cultural Activities.

It is bestowed with the mission of promoting and representing the Indian Universities and other higher education institutions through strong liaison with the government and National/International organizations, sister associations world over and establish liaison between/among universities through active support, cooperation and coordination among the member universities and all its stakeholders for quality education, research and other academics and extension activities.

ABOUT THE CENTRE

AIU–Avinashilingam Institute - Academic and Administrative Development Centre (AIU-AI-AADC) has been initiated by the institute in association with Association of Indian Universities (AIU) as a step towards training the human resources of higher education institutions. The specific objectives of the centre are:

- Facilitate learning through Performance Improvement Programmes for different groups (Administrators/Teaching Faculty/Non-Teaching staff / Research Scholars/Technical Personnel) towards progression based on their career stages.
- Enable continuous learning through rigorous need-based training sessions
- Sensitize stakeholders on recent developments in higher education system in the country and across the world.
- Equip academic / administrative / technical / information personnel with the requisite skills on ICT to handle their work effectively.
- Develop integrity and professional ethics among higher education personnel.
- Strengthen the human capital of the country with right attitude, skills, and knowledge

VISION

To facilitate value-based transition towards changing higher education ecosystem through continuous capacity building.

MISSION

To impart ICT enabled training to human resources of higher education institutions thereby preparing themselves towards Education 5.0.

ABOUT THE PROGRAMME

Academic leaders are those who motivate and steer faculties and students towards excellence and create appropriate environment for the improvement of the academic system in the campuses. When compared to business leaders, Academic leaders have more responsibilities as they are dealing with the future workforce of the Nation. Today Higher Education Institutions undergo significant changes due to government policies, globalization, demand for high level of educational attainments and credentials, tremendous technological advancements, integration of the same in HE sectors, emergence of knowledge economy for the growth and development of the Nation, and the increased need for skilled workforce with dynamism. In the context of changing scenarios in the academic sectors, it is imperative to address all the above issues completely.

Academic leaders must be trained and prepared for effective handling of vital issues through various themes like, transformational leadership, promotion of excellence to cope up with the changing scenario, managing diversities, conflict management and overcoming barriers, networking: fostering industry and social connect, health and well-being, spirituality, internationalization, stress and time management, financial planning and management and promotion of research. The capacity building programme on Academic Leadership 5.0 desires to address every aspect of academic leadership through invited lectures and activities conducted by leading professionals in the domain and build the necessary capacity to the team leaders to move forward along with their team members.

OBJECTIVES

- To prepare academic leaders towards the path of 360° leadership
- To build competencies to handle the changing landscape in Academic leadership
- To design continuous professional development to manage material and human resources to support learning.
- To demonstrate an ethic of care and empathy that promotes academic success, social & emotional health along with moral connectedness

TARGET PARTICIPANTS

Pro-Vice Chancellors, Registrars, Deans, Deputy Deans, Directors, College Principals, Heads of the Departments and other Administrative and Academic level officials.

Registration Fee	: Rs. 3,000/-
Mode of delivery	: Online
Duration	: 20.02.2023 to 28.02.2023

TENTATIVE LIST OF RESOURCE PERSONS

- **Prof. PANKAJ MITTAL**, Secretary , General, AIU, New Delhi
- **SWAMI JAGADATMANANDA SARASWATI**, Chief Advisor of Vedanta, Coimbatore
- **Prof. S.P.THYGARAJAN**, Chancellor, Avinashilingam Institute
- **Prof. V. BHARATHI HARISHANKAR**, Vice Chancellor, Avinashilingam Institute
- **Prof. V N RAJASEKHARAN PILLAI**, Vice Chancellor, Somaiya Vidyavihar University
- **PROF. C. RAJKUMAR**, Founding Vice Chancellor, O.P. Jindal Global University, Sonapat, Haryana.
- **Dr P B SHARMA**, Vice Chancellor , Amity University, Gurgaon
- **Prof . P. SUBRAHMANYA YADAPADITHAYA**, Vice Chancellor , Mangalore University
- **Lt. Col. Dr. A RAVIKUMAR**, Pro Vice Chancellor, Medical and Health Sciences, SRM Institute of Science and Technology (Deemed to be University), Chennai
- **Prof. PANCHANATHAM**, Former Vice Chancellor, TNTEU – Chennai
- **Prof. CAVEN MCLOUGHLIN**, Lifespan Development, Kent University, Kent
- **Prof. DR.IR.MOCH.SASMITO DJATI**, Vice Rector, Brawijaya University, Malang
- **Prof. SUNDAR WILSON**, Director of Anugraha, Capuchin Institute of Psychotherapy, Dindigul
- **Mr. PARAMESWARAN**, Senior Officer, National Institute of Social Defence, New Delhi
- **Prof. KANNAN MOUDGALYA**, Dept of Chemical Engineering, IIT, Bombay
- **DR. SIVAKUMAR SRINIVASAN**, HoD, Department of Applied Mechanics, IIT Madras
- **Dr VENKATACHALAM**, Professor (RBI Chair), Madras Institute of Development Studies, Chennai
- **Prof. MANAS K MANDAL**, Distinguished Visiting Professor, IIT Kharagpur
- **Prof G. RAMESH**, Professor, IIM, Bangalore
- **Prof. G. JAYARAMAN**, Professor-Higher Academic Grade and Dean-Academics, VIT
- **PROF. SURESH PAUL ANTONY**, IIM, Trichy
- **Prof. KUMAR SURESH**, National Institute of Education Planning and Administration (NIEPA), New Delhi
- **Prof. SUDESH MUKHOPADHYAY**, Former Chairman, Rehabilitation Council of India
- **Prof. MADASWAMY MONI**, Retd. Director General, National Informatics Centre.
- **Mr. K.SEETHARAM**, Director, Silver Tongue, Coimbatore
- **MR. SIVASUBRAANIAM**, Founder-Director, Biomimicry
- **Prof.S.VENKATESH**, Persuasive Story Teller, Founder & Managing Director, Gene Macron Media Interactive India Pvt. Ltd.
- **Prof.MINI SHAJI THOMAS**, Dean, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi
- **Prof. ROMATE JOHN**, Dean, School of Social and Behavioural Sciences, Central University of Karnataka
- **Prof. PAUL PRATHAP JAYARAJ**, Dean, AIMED, Bharathidasan University, Trichy
- **Prof. KAMALA SANKARAN**, Professor of Law, Ford Foundation Chair in Public Interest Law, National Law School of India University, Bengaluru
- **Prof.D.LAZAR**, Finance Officer (i/c), Pondicherry University

PROGRAMME SCHEDULE

Day: 1, Date: 20.02.2023

- 09.30 am to 11.00 am : Inauguration & Special Address
- 11.15 am to 12.45 pm : Academic Leadership and NEP 2020
- 02.00 pm to 03.15 pm : Research Leadership
- 03.30 pm to 05.00 pm : Activity – I: Leadership Assessment Test – 1 (Pre – Programme Assessment)

Day: 2, Date: 21.02.2023

- 09.30 am to 11.00 am : Health and Wellness – A Psychologist’s Reflection
- 11.15 am to 12.45 pm : Academic Leadership for New India
- 02.00 pm to 03.15 pm : Transformational Leadership
- 03.30 pm to 05.00 pm : Activity – II: Effective Communication Strategies

Day: 3, Date: 22.02.2023

- 09.30 am to 11.00 am : Financial Planning and Management
- 11.15 am to 12.45 pm : Preparing for Institutional Assessment and Accreditation
- 02.00 pm to 03.15 pm : Conflict Management and Overcoming Barriers for Effective Leadership
- 03.30 pm to 05.00 pm : Activity – III: Sustainable Development of HEIs through Global Engagement

Day: 4, Date: 23.02.2023

- 09.30 am to 11.00 am : Adapting to Changes in Academic Environment
- 11.15 am to 12.45 pm : Non-violent communication for effective leadership
- 02.00 pm to 03.15 pm : Branding of Higher Education Institutions
- 03.30 pm to 05.00 pm : Activity – IV: Four Quadrants of Leadership

Day: 5, Date: 24.02.2023

- 09.30 am to 11.00 am : Women Leadership
- 11.15 am to 12.45 pm : Leadership to Build World Class HEIs
- 02.00 pm to 03.15 pm : Tools for Creative Thinking
- 03.30 pm to 05.00 pm : Activity – V: Assessment of Mental Health

Day: 6, Date: 25.02.2023

- 09.30 am to 11.00 am : Teachers with Ears of Experience Create an Outstanding Ambience even Beyond Classroom
- 11.15 am to 12.45 pm : Human Resource Management
- 02.00 pm to 03.15 pm : Stress and Time Management
- 03.30 pm to 05.00 pm : Activity – VI: Story Telling as Management Tool

Day: 7, Date: 27.02.2023

- 09.30 am to 11.00 am : Spirituality in the Context of Academic Leadership
- 11.15 am to 12.45 pm : Role of Technology in Academic Leadership
- 02.00 pm to 03.15 pm : Understanding & Being Responsive to Gender Intersectionality in Higher Education
- 03.30 pm to 05.00 pm : Sustainable Leadership

Day: 8, Date: 28.02.2023

- 09.30 am to 11.00 am : Internationalization
- 11.15 am to 12.45 pm : Activity – VII: Leadership Assessment Test–1 (Post–Programme Assessment)
- 02.00 pm to 03.15 pm : Learning from Corporate Experience
- 03.30 pm to 05.00 pm : Valediction and Feedback

REGISTRATION

REGISTRATION LINK : <https://forms.gle/YUXQ6FCYhwfLZ8Nn6>

FEE : Rs. 3,000

PAYMENT DETAILS

BANK ACCOUNT DETAILS

Account Name : Avinashilingam Institute for Home Science and Higher Education for Women

Name of the Bank : Indian Bank

Bank Account Number : 917248759

IFSC Code : IDIB000A005

AI ADVISORS

Dr. T. S. K. MEENAKSHISUNDARAM, Managing Trustee

Prof. S. P. THYAGARAJAN, Chancellor

Dr. V. BHARATHI HARISHANKAR, Vice Chancellor

Dr. S. KOWSALYA, Registrar

AIU ADVISORS

Dr. PANKAJ MITTAL, Secretary General, AIU

Dr. AMARENDRA PANI, Joint Director & Head, Research Division, AIU

PROGRAMME COORDINATORS

Dr. U. JERINABI, Professor, Co-ordinator – IQAC

Dr. G. PADMAVATHI, Professor, Dean Physical Sciences and Computational Sciences and Dean Academics (i/c)

REACH US AT:

Dr. K. RAMYA

Nodal Officer

AIU - Avinashilingam Institute- Academic & Administrative Development Centre (AIU-AI-AADC)
Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore – 641 043, Tamil Nadu, INDIA.

e-mail ID : aadc@avinuty.ac.in

Mobile : 8072202927



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Coimbatore-641 043, Tamil Nadu, India

Internal Quality Assurance Cell

organises a

One-Day National Seminar on

Implementation of Academic Bank of Credit (ABC) in Higher Education Institutions



21st March 2023



Blended Mode



Hi-Tech Seminar Hall



About the Institute

Avinashilingam Institute for Home Science and Higher Education for Women - the epitome of higher education is one of the premier institutions in India well known for its commitment to the empowerment of women through value-based and holistic education. The institute follows the educational ideals of Sri Ramakrishna, Holy Mother Sri Saradamani Devi, Swami Vivekananda, and Mahatma Gandhiji. The institute is one of the significant contributions of Padma Bhushan, Dr. T. S. Avinashilingam, an illustrious educationist, freedom-fighter, and Gandhian, and Dr. Rajammal P. Devadas, the world-renowned nutritionist. The institute had its humble beginning in the year 1957 as Sri Avinashilingam Home Science College for Women and has been conferred the Deemed to be University by MHRD in 1988. Few of the recent accolades of the Institute include A++ with CGPA of 3.65/4 by NAAC; 84th Rank in NIRF, 5th Rank under the category of 'University & Deemed to be University (Govt. & Govt. Aided) Technical' in ARIIA – 2021. Presently, the institution is progressing towards 'beyond excellence' under the able guidance and leadership of Dr. T. S. K. Meenakshi Sundaram, Managing Trustee, Avinashilingam Trust, Professor S. P. Thyagarajan, Chancellor, Dr. V. Bharathi Harishankar, Vice Chancellor and Dr. S. Kowsalya, Registrar.

About IQAC

The Internal Quality Assurance Cell (IQAC) was constituted in May 2003 to ensure quality enhancement and sustenance and to make quality an inherent aspect of the institution. IQAC functions as a nodal centre for initiating quality measures in various facets of Institutional activities like facilitating the creation of the learner-centric environment; quality initiatives with other institutions, development, and application of quality benchmark/parameters; collecting and analysing stakeholders' feedback; monitoring the implementation of quality improvement; and novel documentation.

Concept Note

As per National Education Policy 2020, the Academic Bank of Credit (ABC) has been envisaged to facilitate the academic mobility of students with the freedom to study across the Higher Education Institutions in the country with an appropriate "credit transfer" mechanism from one programme to another, leading to attain a Degree/ Diploma/PG-diploma, etc., The UGC Academic Bank of Credit has heralded a much-required change in the existing higher education system and will promote customised learning paths for students. The UGC ABC has revolutionised the way we understand higher education in India. Bringing unprecedented democracy to learners, the ABC will create customised learning paths for students when leveraged properly. The National e-Governance Division (NeGD) of the Ministry of Electronics and Information Technology (MeitY) has created the ABC platform, which is based on the DigiLocker framework and provides the ability for students to open Academic Accounts and for Higher Educational Institutions (HEIs) to sign up. DigiLocker is a flagship initiative of the Ministry of Electronics & IT (MeitY) under the Digital India programme that provides access to authentic digital documents in a citizen's digital document wallet. The takeaways from the implementation of ABCs are multifold and their benefits alone make us understand why the Academic Bank of Credit is important to the Indian Education System. Key benefits are Centralised repository, Customised Learning, Support for student Mobility, Collaborative processes, Promotes employability, Diverse options, and EdTech empowerment. On the whole, the use of ABC improves transparency and helps to introduce a more flexible approach to curriculum design and development. It also facilitates learning mobility through the transfer of credits and credit recognition.

Objectives

- To understand the concept and how it works for the HEI and the students
- To be aware of the ABC implementation procedures in general HEI, Medical sciences, Agricultural Sciences, Engineering. Teachers Education
- To demonstrate the process of registration by the HEI and the creation of ABC ID's for students in the ABC portal
- To recognize the impact of ABC on programme designing, mobility, and credit recognition

**One-Day National Seminar on
Implementation of Academic Bank of Credit (ABC) in Higher Education Institutions**
Detailed programme schedule

Inaugural Function

10 am -11 am

21.03.2023

In the presence of

TUESDAY

Prof.S.P Thyagarajan
Chancellor

Prof.V. Bharathi Harishankar
Vice-Chancellor

Avinashilingam Institute of Home Science and Higher Education for Women, Coimbatore



ABC - An Overview

Prof. Raghavendra Prasad Tiwari

Vice Chancellor of Central University of Punjab,
Bathinda.

11 am – 12 pm



Online Demonstration of ABC

Mr.Prakash Kumar Pandey

Business Development Manager
Digital India

12 pm – 1 pm



ABC Implementation in General Higher Education

Dr. G. Beena

Controller of Examination
REVA University, Bengaluru

2 pm – 2.30 pm

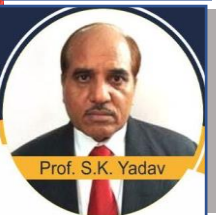


ABC Implementation in Agricultural Science

Dr.Rashmi Aggarwal

Former Joint Director (Academic),
Indian Agricultural Research Institute, New Delhi

2.30 pm – 3 pm



ABC Implementation in Teachers' Education

Prof. S.K. Yadav

Teacher Education Expert, Former Head, Department
of Teacher Education, NCERT, New Delhi

3 pm – 3.30 pm

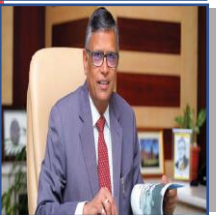


ABC Implementation in Medical Science

Dr. S P Thyagarajan

Chancellor, Avinashilingam Institute of Home Science
and Higher Education for Women, Coimbatore

3.30 pm – 4 pm



ABC Implementation in Engineering

Prof.Sandeep Sancheti

Pro Vice-Chancellor
Marwadi University, Gujarat

4 pm – 4.30 pm



Impact of ABC on HEI'S

Prof. H.A. Ranganath

Former Director, NAAC
Former Vice Chancellor, Bangalore University

4.30 pm – 5.30 pm

ORGANISING COMMITTEE

CHIEF PATRONS

Dr. T.S.K. Meenakshisundaram, Managing Trustee
Prof. S.P.Thyagarajan, Chancellor

PATRONS

Dr. V. Bharathi Harishankar, Vice Chancellor
Dr. S. Kowsalya, Registrar

CONVENORS

Dr. U. Jerinabi, IQAC Coordinator
Dr. K. Arockia Maraichelvi, IQAC Asst. Coordinator

CO-CONVENOR

Dr. K. Ramya, IQAC Core Member

Target Participants

Registrars, Controller of Examinations, Assistant Registrar, Deans, Directors, College Principals, IQAC Coordinators, Heads of the Departments/BoE/BoS Chairperson, Academic Council members, and Senior Faculty.

Registration is Free

Click here to register 



Last Date to Register – 18th March 2023

Mode - Blended

"Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction, and skillful execution; it represents the wise choice of many alternatives, the cumulative experience of many masters of craftsmanship"

- William A. Foster

Reach us at:

Email Address - iqac@avinuty.ac.in

Mobile - 9843114463



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Coimbatore - 641 043, Tamil Nadu, India**

Department of Botany

**UGC Sponsored Two-Day National Conference on New Horizons in
Biological Science Research (NCNBSR-2023)**

04/01/2023 and 05/01/2023

Report of the Conference

04/01/2023, Wednesday

Department of Botany organized a UGC Sponsored Two-Day National Conference on New Horizons in Biological Science Research (NCNBSR-2023) on 04/01/2023 and 05/01/2023. The conference was started on 04/01/2023 at 8.45 a.m. with Registration of participants from various institutions.

Inauguration of the conference started at 9.45 a.m. with prayer songs praising The God Almighty.

Welcome address was given by Dr. A. Vijayalakshmi, Professor and Head, Department of Botany, Dean, School of Biosciences and Convenor, NCNBSR-2023. This was followed by Lighting of Lamp by the dignitaries.



**Welcome address by Dr. A. Vijayalakshmi, Professor and Head, Department of Botany,
Dean, School of Biosciences and Convenor, NCNBSR-2023**



**Lighting of lamp by Dr. V. Bharathi Harishankar, Vice Chancellor, Avinashilingam
Institute for Home Science and Higher Education for Women, Coimbatore**



Presidential address by Dr. V. Bharathi Harishankar, Vice Chancellor, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore

Presidential address was delivered by Dr. V. Bharathi Harishankar, Vice Chancellor, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore who admired the importance of plants in the world.



Felicitation by Dr. S. Kowsalya, Registrar, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore

The gathering was felicitated by Dr. S. Kowsalya, Registrar. The significance of medicinal plants and phytochemicals in curing many diseases in the past, present and future was stressed.



Presentation of star plant to Dr. V. Bharathi Harishankar, Vice Chancellor, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore

Dr. A. Vijayalakshmi, Professor and Head, Department of Botany, Dean, School of Biosciences and Convenor, NCNBSR-2023, presented star plants to all the dignitaries and the staff members of the Department of Botany and gave a note on the importance of star plants.



Keynote address by Dr. Elangbam Athoiba Singh, Professor, Head and Vice Principal, Department of Biotechnology, Bharathi Vidyapeeth (Deemed to be University), Rajiv Gandhi Institute of Information and Technology and Biotechnology, Pune

Keynote address was delivered by Dr. Elangbam Athoiba Singh, Professor, Head and Vice Principal, Department of Biotechnology, Bharathi Vidyapeeth (Deemed to be University), Rajiv Gandhi Institute of Information and Technology and Biotechnology, Pune on the topic **“Role of Research and Development in Bioprospecting and Sustainability to meet Present Challenges”**.

- Bioprospecting is a systematic and organized search for useful products derived from bioresources including plants, microorganisms, animals, etc., that can be developed further for commercialization and the overall benefits of society
- Sustainability is the development that meets the needs of the present generation without compromising the ability of future generations to meet their own needs by keeping in mind the present challenges
- Considering the rich biodiversity, ecosystem services derived from bioprospecting, or drug discovery, could contribute to economic development at the national level

- Dr. Elangbam Athoiba Singh emphasized that the economic development of our nation depends on fulfilling the needs of the society which should be based on bioprospecting and it must involve sustainability of biodiversity



Release of Conference Compendium by the dignitaries.



**Vote of thanks by Dr. S. Amutha, Assistant Professor, Department of Botany,
Organizing Secretary, NCNBSR-2023**

Dr. S. Amutha, Assistant Professor, Department of Botany, Organizing Secretary, NCNBSR-2023 delivered the formal vote of thanks.



Online presentation by Dr. Vijayalakshmi Mahadevan, Professor, Epigenetics and Image Informatics, Institute of Bioinformatics and Applied Biotechnology, Biotech Park, Electronic City Phase I, Bengaluru

Plenary session I started around 12.15 p.m. when Dr. Vijayalakshmi Mahadevan, Professor, Epigenetics and Image Informatics, Institute of Bioinformatics and Applied Biotechnology, Biotech Park, Electronic City Phase I, Bengaluru, delivered a lecture on the topic **“Genomic and Epigenomic Approaches to Precision Medicine”**.

- Dr. Vijayalakshmi Mahadevan outlined the use of genomic and epigenomic approaches to identify biomarkers for early diagnosis of a disease
- Epigenetics is the study of how our behaviors and environment can cause changes that affect the way our genes work. Unlike genetic changes, epigenetic changes are reversible and do not change our DNA sequence, but they can change how our body reads a DNA sequence
- Tremendous developments in genomic technologies and the emergence of new and novel computational algorithms have revolutionized medical diagnosis and

therapy. Epigenetic changes influence the genome architecture and expression patterns and are implied in disease onset and therapy

- She stated the recent developments and importance of epigenomics in identifying human diseases.
- She addressed the development in genome based precision medicine and the use of artificial intelligence and deep learning in devising patient specific therapies.



**“Infectious RNAs: New Challenges to Crop Protection” by Dr. G.R. Janardhana,
Professor, Department of Studies in Botany, University of Mysore, Mysore**

Plenary session II started after lunch around 2.30 p.m. when Dr. G.R. Janardhana, Professor, Department of Studies in Botany, University of Mysore, Mysore, gave an excellent lecture on **“Infectious RNAs: New Challenges to Crop Protection”**.

- T.O. Diener discovered the first viroid in crop plants. He named the causative agent as *Potato Spindle Tuber Viroid* (PSTVd). At present, there are more than 32 different viroids and 200 different variants infecting economically important crop plants

- Viroids are a very small, circular (~250–430 nt), autonomously replicating, single-stranded, non-protein-coding circular RNA molecules that incite diseases in higher plants
- He explained about viroids that are small RNAs able to cause serious diseases in crops leading to a great economical crisis
- Viroids have a broad host range and infect both monocotyledonous and dicotyledonous plants, including a woody host with significant economic losses
- Viroids are predominantly transmitted by mechanical means with contaminated farm implements, human hands or through vegetative propagation, grafting, cutting, seed, pollen and insects
- Viroids are very curious sub-viral infectious agents than viruses. With minimal genetic information, they could able to infect and cause serious diseases only in plants



Poster Presentation



Oral Presentation

Technical session I started around 4 p.m. on 04/01/2023. A total of 10 oral presentations and 36 poster presentations were done on the first day. They were evaluated by the experts.

05/01/2023 Thursday

Second day of the conference started on 05/01/2023 at 9.45 a.m. with prayer songs. Dr. A. Vijayalakshmi, Professor and Head, Department of Botany, Dean, School of Biosciences and Convenor, NCNBSR-2023, welcomed the gathering.



“Taxonomy and its Relevance and Application” by Dr. C. Kunhikannan, Director, Institute of Forest Genetics and Tree Breeding, Coimbatore

Dr. C. Kunhikannan, Director, Institute of Forest Genetics and Tree Breeding, Coimbatore was the resource person for the plenary session III who delivered a talk on **“Taxonomy and its Relevance and Application”**.

- He emphasized the importance of taxonomy in the branch of Botany.
- India is endowed with very rich plant resources and harbours a total of 54733 plant species of flowering plants, pteridophytes, bryophytes, fungi, lichens, algae and microbes

(BSI, 2021), representing 14 % of world flora and about 28% of the plants that occur in India are endemic to India

- From a simple Artificial systems (Based on the morphological characters of the plant species) through natural system we reached Phylogenetic systems (Based on the evolutionary significance of plants) of classification
- Carolus Linnaeus suggested a system of binomial nomenclature. Under this system, every species is given a name of two words the genus name and another species epithet
- The technical advancements and the electronic gadgets help a taxonomist in identifying, classifying and naming a plant. So, the study of plants should go hand-in-hand with recent advancements in technology.
- The requisite for a good taxonomist is utmost needed today.



“Traditional uses of wild tuber *Dioscorea* – Bioactive compounds and health benefits” by Dr. A. Sangilimuthu, Professor, Department of Biotechnology, Karpagam Academy of Higher Education, Coimbatore

Plenary session IV started after tea break around 11.40 a.m. Dr. A. Sangilimuthu, Professor, Department of Biotechnology, Karpagam Academy of Higher Education, Coimbatore was the chief guest for the session. He gave a wonderful talk on “Traditional uses of wild tuber *Dioscorea* – Bioactive compounds and health benefits”.

- *Dioscorea* from Dioscoreaceae family have been used in the Chinese and Indian traditional medicine for treating various ailments
- These tubers were discovered to have analgesic, anti-inflammatory, anti-cancer, wound-healing, antioxidant, anti-hyperglycemic and anti-dyslipidemic effects
- *Dioscorea* contains phenolics, dietary fibre, vitamins, macro and micro minerals. As the plant is rich in nutrients and phytochemicals, it is very widely used by tribes as a source of food and as medicine.

Technical session II started after lunch at 1.50 pm. A total of 11 oral presentations and 26 poster presentations were done on the second day of the conference. They were evaluated by the experts.

A total of 154 participants (Outside participants - 69, inside participants - 85) from various institutions belonging to different states of India registered for the conference. The conference provided a platform for the young researchers to present their research findings. Best presentations, both oral and posters were selected on the basis of evaluation by the experts.



Participants of NCNBSR-2023

Valedictory function started after tea break with prayer at 4.15 pm. when Dr. V. Gayathri, Assistant Professor, Department of Botany and Co-convenor, NCNBSR-2023 welcomed the gathering. Dr. C.V. Kalpana, Assistant Professor, Department of Botany and Organizing Secretary, NCNBSR-2023, summarized the report of **“UGC Sponsored Two-Day National Conference on New Horizons in Biological Science Research (NCNBSR-2023)”** and Dr. A. Vijayalakshmi, Professor and Head, Department of Botany, Dean, School of Biosciences and Convenor, NCNBSR-2023, presented the valedictory address.



Prize distribution by Dr. A. Vijayalakshmi and Dr. C.V. Chittibabu

Prizes for the best oral and poster presentations were distributed to the prize winners by Dr. A. Vijayalakshmi, Professor and Head, Department of Botany, Dean, School of Biosciences and Convenor, NCNBSR-2023 and Dr. C.V. Chittibabu, Associate Professor, Presidency College, Chennai.



Prize Winners of NCNBSR 2023



Research Scholars of Department of Botany

Dr. S. Amutha, Organizing Secretary, NCNBSR-2023, Assistant Professor, Department of Botany delivered the formal vote of thanks.

The Department of Botany registers its gratitude to Internal Quality Assurance Cell, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for the financial support in conducting the conference.

Report

International Symposium on “Convergence of Nutrigenomics, Gut Health, Precision Nutrition and Big Data”

Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, Department of Food Science and Nutrition and Centre for Machine Learning and Intelligence in association with Nutrition Association and Nutrition Society of India (Coimbatore Chapter) and University of Reading, United Kingdom jointly organised an **International Symposium on “Convergence of Nutrigenomics, Gut Health, Precision Nutrition and Big Data”** on **17.04.2023**.

Totally, 100 participants were registered from the department of Food Science and Nutrition, Food Service Management and Dietetics, Computer Science and Biochemistry and Biotechnology including 67 students of I- M.Sc and 33 Ph.D Scholars.

Prof. S.P.Thyagarajan, Chancellor, Dr. N Vasugi, Dean, School of Home Science, Prof. C.A. Kalpana, Deputy Dean, School of Home Science and Professor in Department of Food Science and Nutrition, Dr. P.Subashini, Coordinator, Centre for Machine Learning and Intelligence, Prof. S.Vimal Karani, Professor, University of Reading, UK, Dr.V.G. Mohan Prasad, Chairman, VGM Hospital, Dr. Mukil Maruthamuthu, Director & CEO, Gut-I-Care occupied the dais. Dr. P.Lalitha, Director (i/c), Directorate of Research and Consultancy, Dr. Kalaiselvi Senthil, Assistant Dean, Project and Consultancy, faculty members from Food Science and Nutrition were attend in the conference. Prof. C.A. Kalpana, and Dr. P.Subashini were the conveners and Dr.R.Balasarikha, Assistant Professor, Department of Food Science and Nutrition was the organizing secretary of the conference. Ms.Somali Gosh, Ph.D Scholar, Department of Food Science and Nutrition, was MoC of the programme and introduced the guest speakers of the day.

The program started with prayer song by PhD scholars from music department. Prof. C.A. Kalpana, Deputy Dean, School of Home Science and Professor, Department of Food Science and Nutrition welcomed the gathering.



All the dignitaries on the stage, lighted the lamp. Prof. S.P.Thyagarajan, Chancellor, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore proposed the Inaugural address and emphasized on the importance and role of Microbes in Human health and also added as everyone's diet pattern and nutrient absorption differs from person to person, precision and personalized nutrition is essential. Sir wished the programme to be a grand success and encouraged the participants to do more research to address in this topic for betterment of community.



Dr.N.Vasugi, Dean, School of Home Science greeted the gathering and pointed out the collaborative work and MoU's signed between various Institutions and the major research works done by Food Science and Nutrition Department. Maam also mentioned that Department of FSN have conducted many collaborative works other than this.



The first key note speaker of the session was Prof. S.Vimal Karani, Professor of Nutrigenetics and Nutrigenomics, Deputy Director of the Institute for Food, Nutrition and Health, University of Reading, United Kingdom and delivered a session on “Nutrigenetics and Precision Nutrition in the Era of Artificial Intelligence.” Sir has highlighted on nutrigenomics, metabolomics, precision nutrition and epigenetics with many researchers done by his team and other researchers both in developed and under developing countries. Genetic risk is an important and major issue to cause many life style disorders and methylated rich foods helps in maintaining good health. Sir has mentioned about GeNUINE (Gene Nutrient interection) and gene silencing. He also talked that healthy lifestyle could overcome genetic disorders. Sir has concluded that, ‘multi- omics’ researches are necessary to address the genetic risk and precision nutrition paves way for



better health and sir have discussed with the participants and vibrantly answered all the questions.

After the tea break with refreshment, second session was on “Healthy Gut, Healthy You!” delivered by Dr. V.G. Mohan Prasad, Chairman, VGM Hospital, Coimbatore.



Sir elaborated on, the presence of microbiota in gut, factors affecting gut microbiota, mechanism of microbial colonization in resistance to pathogens, leaky gut, Irritable Bowel Syndrome, Malabsorption syndrome and dysbiosis. Sir wrapped up the session by articulating targeted and personalized approaches can help to overcome all these gut issues. The take away message of sir’s talk is to include probiotic and fermented food more in daily diet to maintain good gut health.

Dr. T. T. Dhivyaprabha, Research Associate, Centre for Machine Learning and Intelligence delivered the third session on “Artificial Intelligence in Sports Nutrition.” Madam has emphasized on analysis of diet applications usage by sports dietitians, data monitoring based on genetic algorithms and gradient using machine, image assisted and image based food recognition mobile applications using artificial intelligence through many research and mobile applications to support and enhance in planning the diet plans for sports persons precisely. Madam also listed highly used application to follow the sports personalities in this current scenario which provides a deep sense to the participants to know about usage and application of artificial intelligence in sports nutrition.

After lunch break, Dr. Mukil Maruthamuthu, Formerly Principal Scientist Metaceutics Pvt. Ltd., Denmark, Director & CEO, Gut-I-Care, Coimbatore delivered a talk on “Touchdown Little Bugs with Deep Learn.” Sir has enlightened on application of gut health in nutrition, health and well being. Stress, smoking, diet, environment and antibiotics change the gut microbial load that leads to life threatening diseases and disorders. Sir emphasized few recent researches on good bacteria in gut health and the factors affecting



the gut microbiome. He also mentioned that giving junk foods to kids is killing our children, elaborated to provide prebiotics and probiotics rich foods in diets. Sir also added on few research on poop to pill concepts. Sir also suggested that machine and deep learning on treatment and identification of GUT health is the need of the hour and many research have to be explored in near future to save lives.

Dr. P.Subashini, Coordinator, Centre for Machine Learning and Intelligence, Professor, Department of Computer Science, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore delivered a talk on “Machine Learning for Nutritional Genomics Studies.” Madam has discussed an insight on gene expression, nutrigenomics, types of machine learning, deep learning, artificial intelligence and big data. Madam has elaborated on data preparation and touched all the topics related to machine learning in nutritional genomics studies and provided an insights on current trends that helped the participants to learn more on applications and importance of machine learned to carry out their further research.

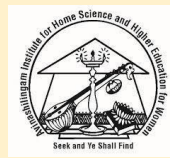


Prof. S.Vimal Karani, Professor, University of Reading, Dr. Mukil Maruthamuthu, Director & CEO, Gut-I-Care and Dr.P.Subashini, Coordinator, Centre for Machine Learning and Intelligence were present in the panel discussion and interacted with participants. The question were related to consumption and importance of methylated foods and probiotics, further learning opportunities in gut microbiome, food compositions to increase gut and overall health and on scope of machine learning and artificial intelligence in nutrition field.



Dr.S.Kowsalya, Registrar, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore proposed the valedictory address and consolidated the whole day happenings. The conference was concluded by giving vote of thanks proposed by Dr. R.Balasarikha, Assistant Professor, Department of Food Science and Nutrition.





Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category 'A' by MHRD, Estd.u/s 3 of UGC Act 1956)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC under section 12B
Coimbatore – 641043, Tamil Nādu, India

Department of Food Science and Nutrition
Nutrition Association and Nutrition Society of India (Coimbatore Chapter) and
Centre for Machine Learning and Intelligence

&

University of Reading, United Kingdom

Cordially invite you for the

International Symposium

On

**“Convergence of Nutrigenomics, Gut Health,
Precision Nutrition and Big Data”**

Chief Patrons

Dr.T.S.K. Meenakshisundaram, Managing Trustee

Prof.S.P. Thyagarajan, Chancellor

Patrons

Dr. V. Bharathi Harishankar, Vice Chancellor

Dr.S.Kowsalya, Registrar

Advisors

Dr.N.Vasugi, Dean, School of Home Science

Dr.M.Sylvia Subapriya, Professor and Head, Dept. of FSN

Convenors

Dr. C.A. Kalpana, Deputy Dean, School of Home Science and
Professor, Dept. of FSN

Dr. P.Subashini, Coordinator, Centre for Machine Learning and Intelligence,
Professor, Dept. of Computer Science

Organising Secretary

Dr.R. Balasasirekha, Assistant Professor (SS), Dept. of FSN

Venue: Hi-Tech Seminar Hall

Date: 17.04.2023

9.45-9.50 am

Prayer

Music Department

9.50-9.55 am

**Welcome
Address**



Dr.C.A.Kalpana

Deputy Dean, School of Home Science
and Professor Dept. of FSN

9.55-10.20 am

**Inaugural
Address**



Prof. S.P.Thyagarajan

Chancellor

Avinashilingam Institute for Home
Science and Higher Education for
Women, Coimbatore

10.20-10.25 am

Greetings



Dr.N.Vasugi

Dean, School of Home Science

10.25-11.05 am

**Nutrigenetics
and Precision
Nutrition in the
Era of Artificial
Intelligence**



Prof. Vimal Karani S

Professor of Nutrigenetics and
Nutrigenomics
Deputy Director of the Institute for
Food, Nutrition and Health
University of Reading
United Kingdom

11.05-11.25 am **Tea Break**

11.25-12.10 pm

**Healthy Gut,
Healthy You!**



Dr.V.G. Mohan Prasad
Chairman, VGM Hospital
Coimbatore

**Discussion on Project Development -
Chancellor and Symposium Team**

12.10-12.45 pm

**Parallel
Sessions**

Artificial Intelligence in Sports Nutrition

Dr. T. T. Dhivyaprabha

Research Associate

Centre for Machine Learning and Intelligence

12.45-1.30 pm **Lunch**

1.30-2.15 pm

**Touchdown
Little Bugs
with Deep
Learn**



Dr. Mukil Maruthamuthu
Formerly Principal Scientist
Metaceutics Pvt Ltd., Denmark
Director & CEO, Gut-I-Care
Coimbatore

2.15-3.00 pm

**Machine
Learning for
Nutritional
Genomics
Studies**



Dr.P.Subashini
Coordinator, Centre for Machine
Learning and Intelligence
Professor, Dept. of Computer Science
Avinashilingam Institute for Home
Science and Higher Education for
Women

3.00-3.45 pm Panel Discussion and Outcomes of the Workshop

3.45-4.00 pm

**Valedictory
Address**



Dr. S.Kowsalya

Registrar

Avinashilingam Institute for Home
Science and Higher Education for
Women, Coimbatore

4.00 pm

**Vote of
Thanks**



Dr.R.Baladasirekha

Assistant Professor (SS),

Dept. of Food Science and Nutrition

International Symposium on Convergence of Nutrigenomics Precision Nutrition, Gut Health and Big Data

SL. No.	Final Name List	
	Name	Department
1	Jeelakarra Jwalitha	FSMD 1st M.Sc
2	Meesala Sushma	FSMD 1st M.Sc
3	Sreenidhi C	FSMD 1st M.Sc
4	Mahalakshmi D	FSMD 1st M.Sc
5	Abhinandhana S	FSMD 1st M.Sc
6	Swathika P	FSMD 1st M.Sc
7	Kannepalli Mythili	FSMD 1st M.Sc
8	Aiswarya Warriar M	FSMD 1st M.Sc
9	Ramlan Samrin T	FSMD 1st M.Sc
10	Sampoorna E	FSMD 1st M.Sc
11	Jasira M	FSMD 1st M.Sc
12	Pavithra M	FSMD 1st M.Sc
13	Bagya Darshini S	FSMD 1st M.Sc
14	Name	FSMD 1st M.Sc
15	Nandhini R	FSMD 1st M.Sc
16	Swetha D	FSMD 1st M.Sc
17	Aishwarya S	FSMD 1st M.Sc
18	Akshaya SA	FSMD 1st M.Sc
19	Gowri M	FSMD 1st M.Sc
20	Kasarabada Rvnd Praharshitha	FSMD 1st M.Sc
21	Neethara Priya G G	FSMD 1st M.Sc
22	Rithika Ranjith	FSMD 1st M.Sc

23	Seneka B	FSMD 1st M.Sc
24	Sri Meghana U	FSMD 1st M.Sc
25	Vaddi Nodi Bagyashri Sailaja	FSMD 1st M.Sc
26	Fathimatul Hibha Pv	FSMD 1st M.Sc
27	Adithiyalakshmi S	FSMD PhD
28	Karthika M	FSMD PHD
29	Komathy N	FSMD PHD
30	Shanmukapriya K K	FSMD PHD
31	Sowmiya J	FSMD PHD
32	Tinu D	FSMD PHD
33	Vishali V	FSMD PHD
34	Yoshia Leela J	FSMD PHD
35	S Sruthi Kavya	FSN PhD
36	Bama S	FSN PhD
37	D Pushparani	FSN PhD
38	Devatha S M	FSN PhD
39	Janani I	FSN PhD
40	Jolly TT	FSN PhD
41	Koushikha N M	FSN PhD
42	Krithika R	FSN PhD
43	Mangalambika B	FSN PhD
44	Nongmaithem Babita Devi	FSN PhD
45	Rachael Alphonso	FSN PhD
46	Rathina C	FSN PhD
47	Sara Jyrwa	FSN PhD
48	Somali Ghosh	FSN PhD
49	Sowmiya G	FSN PhD

50	Suganya A	FSN PhD
51	Tilotama Stougaijam	FSN PhD
52	Uthra B	FSN PhD
53	Sai Gayathri H	FSN PhD
54	Malarveli	FSN Part time PhD
55	Gracefully wankhar	FSN 1st M.Sc
56	Jeevitha. N	FSN 1st M.Sc
57	Maheswari. M	FSN 1st M.Sc
58	Malathi. M	FSN 1st M.Sc
59	Shanmuga priya. A	FSN 1st M.Sc
60	Aburvaa s.k	FSN 1st M.Sc
61	Abinaya. M	FSN 1st M.Sc
62	Abirami S	FSN 1st M.Sc
63	Aishwarya. B	FSN 1st M.Sc
64	Bhava tharani.M	FSN 1st M.Sc
65	Dakshinya. P.R.	FSN 1st M.Sc
66	Eduri Tanuja	FSN 1st M.Sc
67	Finoshiya Fathima. M	FSN 1st M.Sc
68	Haritha R	FSN 1st M.Sc
69	Manonmani G.T	FSN 1st M.Sc
70	Muthu Sountharya.M	FSN 1st M.Sc
71	Rithika M.S	FSN 1st M.Sc
72	Sarveswari T. S	FSN 1st M.Sc
73	Shifa A	FSN 1st M.Sc
74	Sindhu. S	FSN 1st M.Sc
75	Sneha S	FSN 1st M.Sc
76	Dharani Priya. S	FSN 1st M.Sc

77	Dharsha C	FSN 1st M.Sc
78	Sowmiya.K	FSN 1st M.Sc
79	vaishnavi. B	FSN 1st M.Sc
80	Varsha A	FSN 1st M.Sc
81	yamuna. s	FSN 1st M.Sc
82	yamunadevi.s	FSN 1st M.Sc
83	yazhini. S	FSN 1st M.Sc
84	Shanmugavalli R	CS PhD
85	Jennyfer Susan MB	CS PhD
86	Mohana M	CS PhD
87	A Mahalakshmi	CS PhD
88	Aiswarya S	CS PhD
89	Afrina Fathima P	CS 1st M.Sc
90	Beula Rose Shalom A	CS 1st M.Sc
91	Deepika V	CS 1st M.Sc
92	Mohanambal N	CS 1st M.Sc
93	Mrithika D	CS 1st M.Sc
94	Niranjana M	CS 1st M.Sc
95	Shalini R	CS 1st M.Sc
96	Snega D	CS 1st M.Sc
97	Vasundra RS	CS 1st M.Sc
98	Yashini N	CS 1st M.Sc
99	Yughasini B	CS 1st M.Sc
100	Archana	Biochemistry, PhD

International Symposium on *Computing Education* *– Perspectives for Online Learning*

6th January 2023

Online learning is turning to be a game changer for the modern educational system, quickly breaking down the barriers of geographical distances. The COVID -19 pandemic had disrupted education affecting around 1.6 billion students and resulted in the implementation of remote learning modalities as an emergency response. We are now in the post pandemic era and there is no denial of the fact that the lessons of yesterday are becoming principles for tomorrow.

Though the concept is not new, Online learning is fast becoming the new norm and we need to adapt ourselves as educators and learners to this scenario. The theme of the symposium is “Computing Education - Perspectives for Online Learning”. Several eminent academicians of international repute have been invited to share their expertise in the field of online learning

The Symposium will serve as a forum to discuss, analyse and disseminate various aspects of online learning from the teacher and learner’s outlook to creating effective pedagogical content and overcoming some of the challenges. The topics of the Symposium have been chosen to give a macroscopic view of the educational systems of the near future. The deliberations will provide insights towards incorporating various components of creative pedagogy in-order to foster meaningful learning in online classrooms.



Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD
Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC
Coimbatore-641 043, Tamil Nadu, India

Department of Computer Science

cordially invites you for the Inaugural Meet of

'Computing Education Perspectives for Online Learning'

6th January, 2023



Prof. S.P. Thyagarajan, Chancellor

Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore
will preside and deliver the Presidential Address

Dr. V. Bharathi Harishankar, Vice-Chancellor

Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore
will deliver the Inaugural Address

Dr. S. Kowsalya, Registrar

Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore
will deliver the Special Address

Dr. G. Padmavathi

Dean School of Physical Sciences and Computational Sciences

Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore
will grace the occasion

Dr. Vivekanandan Suresh Kumar

Associate Dean, Research and Innovation

Professor, School of Computing and Information Systems, Athabasca University, Canada
will deliver the Keynote Address

Venue: Hi Tech Seminar Hall, III Floor, Administrative Block

Date: 06.01.2023

Time: 9.45 am

PROGRAMME

09:00 am to 09:45 am	REGISTRATION
09:45 am to 11.15 am	INAUGURATION PRAYER
Welcome Address	Dr. B. Kalpana Professor, Department of Computer Science Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore
Lighting the Lamp	By Dignitaries on the Dias
Presidential Address	Prof. S.P. Thyagarajan , Chancellor Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore
Inaugural Address	Dr. V. Bharathi Harishankar , Vice-Chancellor Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore
Special Address	Dr. S. Kowsalya , Registrar Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore
Vote of Thanks	Dr. R. Vijayabhanu Assistant Professor(SG), Department of Computer Science Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore
10.15 am to 11.15 am	Keynote & Technical Session - I: Higher Education and Technology Dr. Vivekanandan Suresh Kumar Associate Dean, Research and Innovation Professor, School of Computing and Information Systems, Faculty of Science and Technology, Athabasca University, Canada
11.15 am to 11.30 am	Tea Break
11.30 am to 12.45 pm	Technical Session - II: Transformation in Education and Future AI Dr. P. Kalavathi Professor, Department of Computer Science and Applications, Gandhigram Rural Institute, Dindigul
12.45 pm to 01.30 pm	Lunch Break
01.30 pm to 02.45 pm	Technical Session - III: Education 4.0: Role of AI in transforming Academia Dr. E. Srie Vidhya Janani Assistant Professor, CSE, Anna University Regional Campus, Madurai
02.45 pm to 03.00 pm	Tea Break
03.00 pm to 04.15 pm	Technical Session - IV: Best Practices for Online Content Development Dr. Stella George Professor, Athabasca University, Canada
04.15 pm to 04.30 pm	Feedback
Vote of Thanks	Dr. G. Sudhamathy Assistant Professor(SS), Department of Computer Science Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore



International Symposium – Welcoming the Guests



International Symposium – Inauguration



Inauguration – Prayer Song, Department of Music
*“The function of prayer is not to influence God,
but rather to change the nature of the one who prays.”*



**Inauguration – Welcome Address by Dr. B. Kalpana,
Professor, Department of Computer Science**



Inauguration – Greeting the Chief Guest with a Bouquet



Inauguration – Lighting the Kuthuvilaku by the Chief Guest
*“Darkness cannot drive out darkness: only light can do that.
Hate cannot drive out hate: only love can do that.”*



Inauguration – Presidential Address by the Chancellor, Prof. S.P. Thyagarajan



Inauguration – Inaugural Address by the Vice Chancellor Dr. V. Bharathi Harishankar



Inauguration – Special Address by the Registrar Dr.S. Kowsalya



Inauguration – Keynote Address by the Chief Guest,
*Dr. Vivekanandan Suresh Kumar, Associate Dean, Research and Innovation,
Professor, School of Computing and Information Systems, Athabasca University,
Canada*



Inauguration – Vote of Thanks by Dr. R. Vijayabhanu,
Assistant Professor (SG), Department of Computer Science



Participants Ready for the Technical Sessions



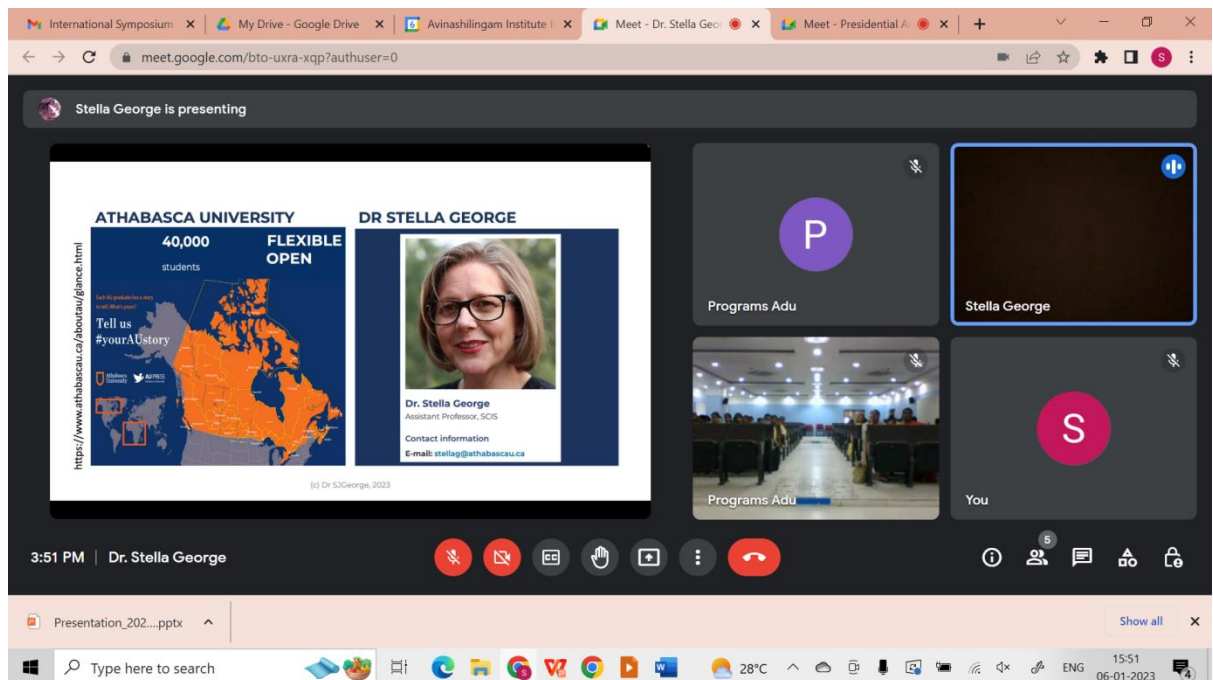
**Technical Session I by Dr. VIVEKANANDAN SURESH KUMAR on the topic
"Higher Education and Technology"**



**Technical Session II by Dr. P. Kalavathi,
Professor, Department of Computer Science and Applications, Gandhigram
Rural Institute, Dindigul,
On the Topic "Transformation in Education and Future AI"**



**Technical Session III by Dr.E.Srie Vidhya Janani, Assistant Professor , CSE,
Anna University Regional Campus, Madurai,
On the Topic “Education 4.0 : Role of AI in transforming Academia”**



**Technical Session IV by Dr.Stella George , Professor, Athabasca University,
Canada,
On the Topic “Best Practices for Online Content Development,”**

**Vote of Thanks by Dr. G.Sudhamathy, Assistant Professor (SS),
Department of Computer Science**

*If the only prayer you said in your whole life was, "thank you," that would suffice.
What we do for ourselves dies with us.
What we do for others and the world remains and is immortal.*

The Planning for this Symposium started way back in October 2022 by the Head of the Department Dr. S. N. Geethalakshmi, Convenor Dr. B. Kalpana. The planned activities were executed by the conference secretaries Dr. R. Vijayabhanu and Dr. G. Sudhamathy. Eminent International and National Speakers from Academia were fixed as resource persons.

Prof. S.P Thyagarajan, Chancellor, Presided the Inauguration of this Symposium, Dr. Bharathi Harishankar, Vice Chancellor, delivered the Inaugural Address, Dr. S. Kowsalya, Registrar, delivered the Special Greetings and Dr.Vivekanandan Suresh Kumar delivered the Keynote Address. The occasion was graced by Dr. G. Padmavathi, Dean, School of Physical Sciences and Computational Sciences.

The International and National Speakers from Academia Shared their Knowledge and Experience in this International Symposium on Computing Education - Perspectives for Online Learning.

- 1) **Dr. VIVEKANANDAN SURESH KUMAR**, Associate Dean, Research and Innovation, Professor, School of Computing and Information Systems, Athabasca University, Canada, delivered the Keynote Address and Technical Session I on the topic "Higher Education and Technology"
He shared a huge knowledge on the Visionary goals of online learning, specific applications, recent advances in online learning, 4th Industrial revolution, cognification in education, significance of communicating and network building, Ethically smarter, way to get smarter so learners succeed(online learning).
- 2) **Dr. P. KALAVATHI**, Professor, Department of Computer Science and Applications, Gandhigram Rural Institute, Dindigul, delivered the Technical Session II on the topic "Transformation in Education and Future AI"
That was a very interesting sharing on Society 5.0, Impact of AI in education, AI paradigms-Artificial Narrow Intelligence, Artificial General Intelligence, Future AI technologies-ASI and AGI. Spoke on turing test, flat pack furniture test, IBM's supercomputer Watson, databots.
- 3) **Dr. SRIE VIDHYA JANANI**, Assistant Professor , CSE, Anna University Regional Campus, Madurai, delivered the Technical Session III on the topic "Education 4.0 : Role of AI in transforming Academia"
This session addressed on the Role of AI in transforming academia, successful AI app's, AI research potential and difficulty, Smart phone-facial recognition, Weather forecast, AI virtual assistant Commutation-Google maps, Uber, Social media app's- tagging, friend suggestion, Surveillance system and chatbots, e-commerce and entertainment app's.
- 4) **Dr. STELLA GEORGE**, Professor, Athabasca University, Canada, delivered the Technical Session IV on the topic "Best Practices for Online Content Development"
The session gave a glimpse of the consideration for online education, educational technology, open pedagogy, effective practice, OER-5R(Reuse, Revise, Remix, Redistribute and Retain), Content has to be created with clarity in mind focus, structure, editing, delivery, closure, Learning doesn't exist without technology.



Avinashilingam Institute for Home Science and Higher Education for Women

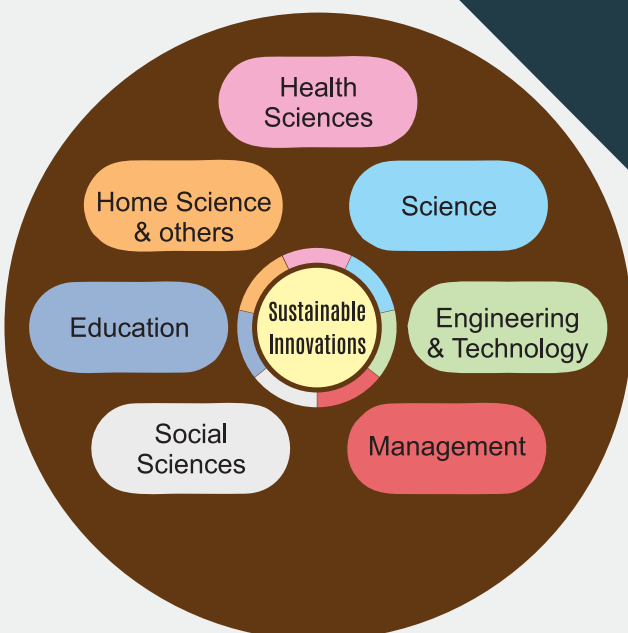
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**Department of
Computer Science**

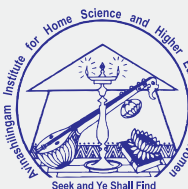
*National
Conference on*

**Multidisciplinary
Research for
Sustainable
Innovations
(NCMRSI 2023)**

REPORT



10.02.2023



Avinashilingam Institute for Home Science and Higher Education for Women

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Coimbatore-641 043, Tamil Nadu, India

Department of Computer Science

National Conference on

Multidisciplinary Research for Sustainable Innovations

(NCMRSI 2023)

10.02.2023


The Department of Computer Science, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore organized an One-day National Conference on Multidisciplinary research for Sustainable Innovations (NCMRSI -2023) on 10/02/23. The Conference focused on bringing together young researchers from multiple disciplines to showcase their research ideas. The Head of the Department, Dr S. N. Geethalakshmi, welcomed the gathering. Chancellor Prof. S.P. Thyagarajan presided the event and in his Presidential address stressed the need for multidisciplinary approach to research domains where the scientific community needs to take wholesome view to solutions and not works in silos.

Vice Chancellor Dr .V.Bharathi Harishankar delivered the Inaugural address and highlighted the ways in which multidisciplinary research will encourage application of tools from a discipline to theoretical concepts of another discipline. She also said that this could contribute towards more wholesome research thereby paving the way for sustainable innovations. Dr .S. Kowsalya, Registrar, delivered the special address and released the hard copy of the Conference Proceedings. She lauded the efforts of the Department in organizing the conference. She initiated the Lighting of the lamp along with the Chief Guest - Ms. R. Jayasri, CEO, Cruzze Solutions, Coimbatore, followed by Conveners – Dr. S.N. Geethalakshmi and Dr. I Elizabeth Shanthi and the Organizing Secretaries of NCMRSI 2023, Dr N. Valliammal and Dr V. Srividhya.

The Chief Guest Ms. R. Jayasri, CEO, Cruzze Solutions, Coimbatore delivered the Keynote Address and impressed the audience on the need to contribute towards Sustainable Innovations. She also highlighted some of the path breaking innovations of 2022.

The Keynote Speaker focused on the Recent Technologies and Innovations, Smart Devices and Intelligent Applications which made the session lively and thereby pulled in the attention of the audience. Few inventions stated by the Keynote Speaker covered Color changing Car, Smart Suitcase (Travelmate), Apple's Hidrate Spark Pro, McLearn Ring Pay, Movano Ring – Movano, Re-Printable Paper impressed the audience and highlighted the significance of innovation with technologies in multiple fields.

Dr I. Elizabeth Shanthi, Professor, Department of Computer Science proposed the



Vote of Thanks .This was followed by parallel paper presentation sessions. Around 40 papers were selected after a peer review process for presentation at the conference. The conference was successful in inviting participation from multiple disciplines like Chemistry, Biotechnology, Computer Science, Physics, Electronics, Home Science and Social Sciences.

Technical Session I and II were conducted in parallel at National Cyber Defense Research Centre, III Floor in virtual mode. Technical Session I under the Theme Artificial Intelligence and Machine Learning based Application was held with the session Chair Dr. C. Beulah Christalin Latha, Associate Professor, Digital Science, Karunya Institute of Technology and Sciences, Coimbatore. A Total of 20 Papers was presented during this session. The session was coordinated by Dr.B.Sarojini, Assistant Professor, Department of Computer Science.

Technical Session II was organized in Virtual Mode at Computing Lab II, II Floor, Library Block with the Theme: IT and IT-related applications. The Session Chair was Dr. M. Punithavalli, Professor, Department of Computer Science, Bharathiar University, Coimbatore. A Total of 12 Papers was presented during this session. The session was coordinated by Ms. Rama Mercy and Dr.V.Rachel, Assistant Professor, Department of BCA, Campus II.

Session III was also conducted in Virtual Mode focusing on the Theme: Multidisciplinary and was Chaired by Dr.K.Parameshwari, Associate Professor and Head, Coimbatore A Total of 6 Papers was presented during this session. The session was coordinated by Dr.Sudhamathy, Assistant Professor, Department of Computer Science.

The chair of the Technical Sessions assessed the presentations and identified the best presentations for the papers submitted. Three prizes were determined. In the valedictory function the paper presentations receiving the prizes were announced. The Paper ID 1003 titled PRODUCTION OF ECO-FRIENDLY BIO-PLASTIC bagged the I prize, Paper ID 1039, Name: I. Dhanapriyadharsini Mode; offline, Title: Plant Leaf Image Segmentation and Feature Extraction algorithms : A Technical Review received the II Prize. Paper id - 1001 titled PRODUCTION OF VERSATILE BIO-ENZYME received the III prize.

The participants' feedback on the NCMRSI 2023 revealed the significance of the organization of multidisciplinary conference clubbing the researchers of various disciplines to collaborate and contribute to sustainable innovations in the near future. The feedback enclosed the experiences of the researchers for the organization of this conference with 50% outstanding, 30% for goodness towards this conference to present their ideas. The takeaways of this conference as highly useful for their further research through the comments and confidence gained with 60% and 40% for the benefit gained in a good way.

The National Conference on Multidisciplinary research for Sustainable Innovations (NCMRSI 2023) had the platform for the research scholars from multiple disciplines to present the research work and the audience was enthused further with vivid ideas.



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Coimbatore-641 043, Tamil Nadu, India

Department of Computer Science

cordially invites you for the Inaugural Meet of

National Conference on Multidisciplinary Research for Sustainable Innovations (NCMRSI 2023)

10th February, 2023

Prof. S.P. Thyagarajan, Chancellor
Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore
will preside and deliver the Presidential Address

Dr. V. Bharathi Harishankar, Vice-Chancellor
Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore
will deliver the Inaugural Address

Dr. S. Kowsalya, Registrar
Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore
will deliver the Special Address

Ms. Jayasri R.
CEO
Cruze Solutions, Coimbatore
will deliver the Keynote Address

Venue: Thiruchitrabalam Auditorium

Date: 10.02.2023

Time: 9.45 am

PROGRAMME

09:00 am to 09:45 am **REGISTRATION**

09:45 am to 11.15 am **INAUGURATION**

PRAYER

Welcome Address **Dr. S.N. Geethalakshmi**
Professor & Head, Department of Computer Science
Avinashilingam Institute for Home Science and Higher Education for Women

Lighting the Lamp By Dignitaries on the Dias

Presidential Address **Prof. S.P. Thyagarajan, Chancellor**
Avinashilingam Institute for Home Science and Higher Education for Women

Inaugural Address **Dr. V. Bharathi Harishankar, Vice-Chancellor**
Avinashilingam Institute for Home Science and Higher Education for Women

Special Address **Dr. S. Kowsalya, Registrar**
Avinashilingam Institute for Home Science and Higher Education for Women

Keynote Address **Ms. Jayasri R.**
CEO, Cruze Solutions, Coimbatore

Vote of Thanks **Dr. I. Elizabeth Shanthi**
Professor, Department of Computer Science
Avinashilingam Institute for Home Science and Higher Education for Women

11.15 am to 11.30 am **Tea Break**

11.30 am to 12.45 pm **Technical Session I**

12.45 pm to 01.30 pm **Lunch Break**

01.30 pm to 02.45 pm **Technical Session II**

02.45 pm to 03.00 pm **Tea Break**

03.00 pm to 04.15 pm **Technical Session III**

04.15 pm to 04.30 pm **Valedictory**

Report Reading **Dr. N. Valliammal**
Assistant Professor, Department of Computer Science
Avinashilingam Institute for Home Science and Higher Education for Women



**Welcoming
the
Dignitaries**



Inauguration – Prayer Song



**Welcome Address
by
Dr. S.N.Geethalakshmi
Professor & HOD,
Department of
Computer Science**

Inauguration – Lighting the Kuthuvilaku



Inauguration

*Presidential Address by the Chancellor,
Prof. S.P. Thyagarajan through Virtual Mode*



*Inaugural Address by the Vice Chancellor
Dr. V. Bharathi Harishankar through Virtual Mode*



Release of Proceedings

*Keynote Address by the Chief Guest,
Ms. Jayasri.R, CEO, Cruze Solutions*



Inauguration



Color Changing Car
Smart Suitcase (Travelmate)
Apple's Hidrate Spark Pro
McLear Ring Pay
Movano Ring – Movano
Re-Printable Paper
Nanyang Technological University



Inauguration



Participants who attended the Conference



Inauguration



***Vote of Thanks by Dr. I. Elizabeth Shanthi,
Professor, Department of Computer Science***



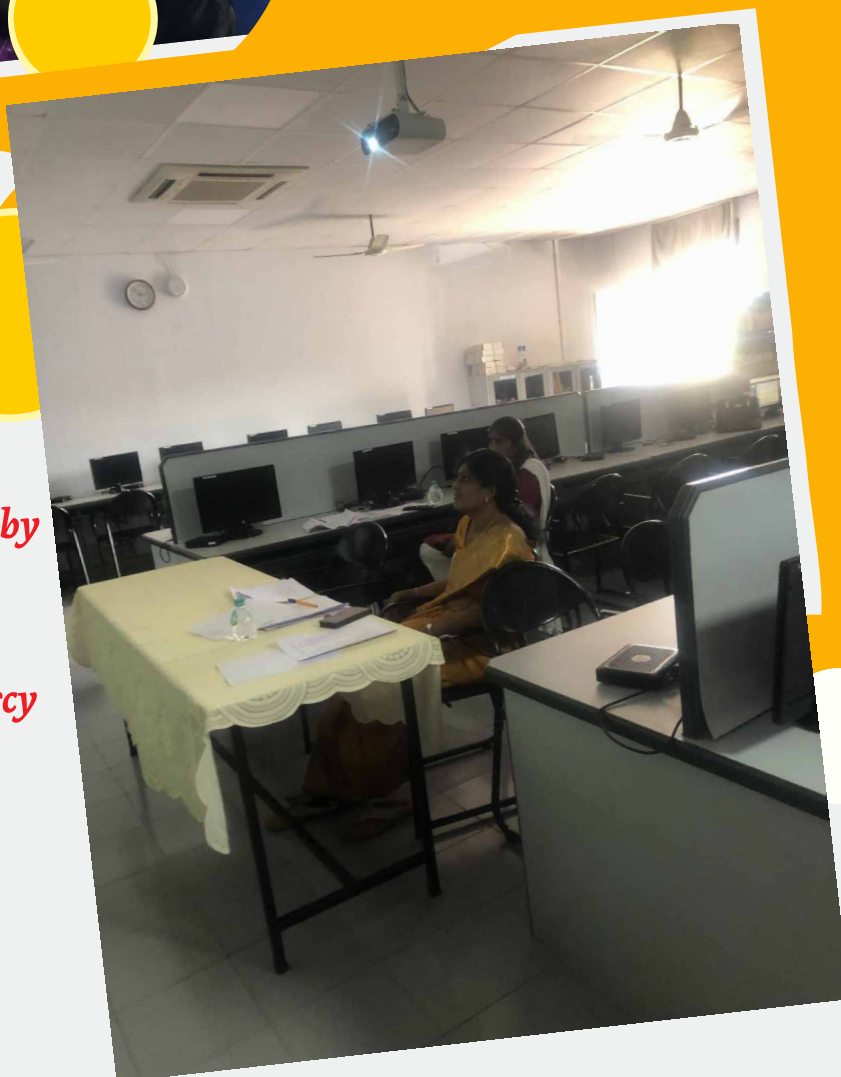
Master of Ceremony by Ms. Rama Mercy and Dr. V. Rachel

Technical Session I



*Offline Mode
- Co-ordinated
by
Dr. B. Sarojini*

*Online Mode
-Co-ordinated by
Dr. V. Rachel
and
Ms. Rama Mercy*



Technical Session II

Valedictory and Prize Distribution



The technical sessions witnessed 36 paper presentations by the participants and the session chair persons assessed the innovations based on the theme and identified the best in the respective technical sessions.

The technical sessions made the participants to share the innovative ideas in this conference platform in the hybrid mode from various places viz., Goa, Mizoram, Maharashtra, Odisha, Chennai, Madurai, Coimbatore of our nation. The participants had a wide around deliberations in the technical sessions. The valedictory function brought the end of the conference with the report reading by the Organising Secretary Dr.N.Valliammal, Assistant Professor (SG), Department of Computer Science. The winners of the presentations were announced wherein the First and Third prize winners received their prizes virtually. The participants from two Technical sessions were present virtually and one team assembled in the venue to receive the prize.

Notable first three winners of the presentations are

Prize	Paper ID	Title / Authors / Domain	Institution
First Prize	1003	PRODUCTION OF ECO-FRIENDLY BIO-PLASTIC Kanchana et. al. Bio-tech domain	Parvatibai Chowgule College of Arts & Science, Autonomous, Margao, Goa, India.
Second Prize	1039	PLANT LEAF IMAGE SEGMENTATION AND FEATURE EXTRACTION ALGORITHMS: A TECHNICAL REVIEW I. Dhanapriyadharsini Computer Science domain	Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore.
Third Prize	1001	PRODUCTION OF VERSATILE BIO-ENZYME Kanchana et.al. Bio-tech domain	Parvatibai Chowgule College of Arts & Science, Autonomous, Margao, Goa, India.

அவினாசிலிங்கம் பல்கலையில் பல்துறை ஆராய்ச்சி மாநாடு

கோவை, பிப். 11-

அவினாசிலிங்கம் பல்கலையில் கம்ப்்யூட்டர் சயின்ஸ் துறை சார்பில், 'நிலையான கண்டுபிடிப்புகளுக்கான ஆராய்ச்சி சார்ந்த பல்துறை மாநாடு' பல்கலை அரங்கில் நேற்று நடந்தது. வேந்தர் தியாகராஜன் தலைமைவகித்து கருத்தரங்கை துவக்கி வைத்தார்.

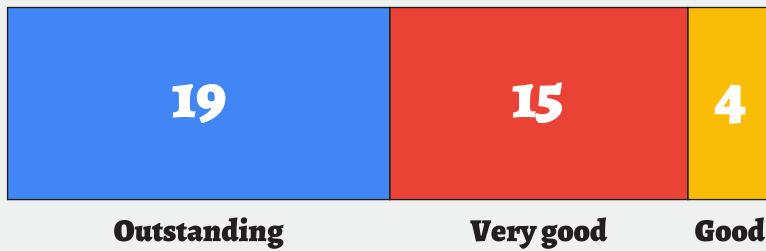
இக்கருத்தரங்கில், தேசிய கல்விக் கொள்கையின் முக்கியத்துவம், நாட்டின் வளர்ச்சிக்கு ஆராய்ச்சிகள் மற்றும்

கண்டுபிடிப்புகளின் பங்களிப்பு, ஆராய்ச்சிகளில் மாணவர்கள் ஈடுபடுவதன் அவசியம் குறித்து வல்லுநர்கள் விளக்கமளித்தனர். மூன்று அமர்வுகளில், 38 ஆராய்ச்சி கட்டுரைகள் மாணவர்களால் வெளியிடப்பட்டன.

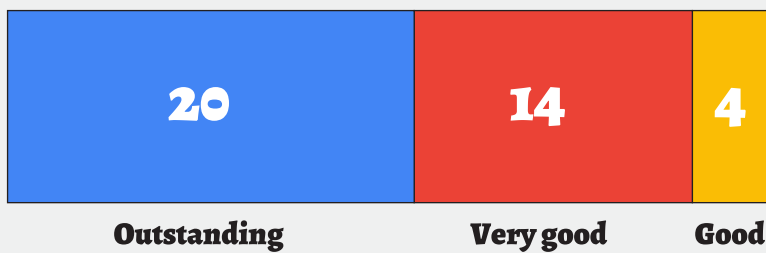
குருஸ் சொல்யூசன்ஸ் நிறுவன தலைமை நிர்வாக அதிகாரி ஜெயபுரீ, துணை வேந்தர் பாரதி ஹரிசங்கர், பதிவாளர் கவுசல்யா, துறைத்தலைவர் கீதாலட்சுமி, உள்ளிட்ட பலர் பங்கேற்றனர்.

Feedback

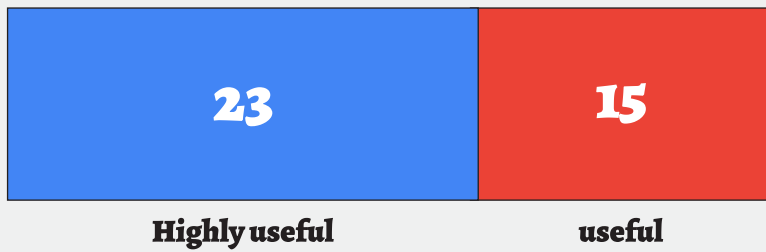
Theme of the conference



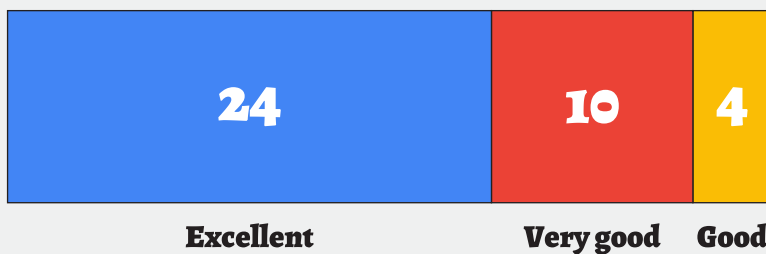
Organization of the Conference



Usefulness of the Conference



Content of the Resource Person







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Coimbatore-641043, Tamil Nadu, India

UGC-Sponsored Two-Day International Conference

on

'Innovations in the Sphere of Biological Sciences'

(ISBS2023)



Organized by

**Department of Biochemistry, Biotechnology and
Bioinformatics**

February 15th & 16th, 2023

INDEX

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6.	Report of the Conference <ul style="list-style-type: none">• About the Conference• Sessions of the Conference• The Participants	
7.	Feedback from participants	
8.	Certificate	

The Brochure

Registration Details

Category	Registration Fee
Research Scholars	Rs.750/-
Faculty / Academicians/ Industrialists	Rs.1500/-
International Delegates	30 USD

The participants are requested to send their duly filled google forms for registration along with the transaction proof. The account details for the remittance of the registration fee are as follows:

Account Name	: The Registrar
Account Number	: 6010310202
Name of the Bank	: Indian Bank
Branch	: ADUC Branch
IFSC Code	: IDIB000A005
Type of Account	: Savings Account (SA)

Registration ONLY by filling and submitting the online Google form.
<https://forms.gle/5vSUMMXAF3qnesHA>

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Dr. T.S.K. Meenakshisundaram, Managing Trustee
Dr.S.P.Thyagarajan, Chancellor

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Dr.(Mrs.) S.Kowsalya, Registrar

Advisor

Dr.(Mrs) A.Vijayalakshmi
Dean
School of Biosciences

Coordinator

Dr.(Mrs.) Anitha Subash
Professor and Head
Department of Biochemistry, Biotechnology, and Bioinformatics

Convenors

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Assistant Professors
Department of Biochemistry, Biotechnology, and Bioinformatics

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 COIMBATORE - 641 043, TAMIL NADU, INDIA.

Two Day International Conference on Innovations in the Sphere of Biological Sciences (ISBS 2023)

February 15 & 16, 2023

ISBS
2023

Department of Biochemistry,
Biotechnology and Bioinformatics

ABOUT OUR INSTITUTION

The great patriot and educationist Padma Bhushan Dr.T.S.Avinashilingam Ayya Avl. under the auspices of the Avinashilingam Education Trust in 1957 established Avinashilingam Institute for Home Science and Higher Education for Women. The Institute follows the educational ideals of Sri Ramakrishna, Holy Mother Sri Saradama Devi, Swami Vivekananda and Mahatma Gandhi and upholds a life of purity, discipline and services. It is now one of the largest Institutions in the country to impart quality education for women at all levels. The University has touched still higher peaks by receiving Category 'A' from MHRD, A+ Grade from NAAC. From time immemorial, the institutional activities have focused on providing education with academic excellence, vitality of culture and values and social relevance.

ABOUT THE DEPARTMENT

The Department was established in 1969 with the introduction of M.Sc. Biochemistry. It is presently offering undergraduate, postgraduate and research programmes in Biochemistry, Biotechnology and Bioinformatics. The department has been built up with very strong roots and has grown into a full-fledged banyan, bringing Biochemistry, Biotechnology, Bioinformatics and all other allied fields under its banner. The department is very well equipped with several laboratories and instrument rooms, all of which house many state-of-the-art scientific equipment. The department is carrying out very active research in various thrust areas. The department has collaborative research activities with Korean Universities, Ohio State University, USA, Brawijaya University, Indonesia and University of Latvia.

ABOUT THE CONFERENCE

The main objective of the proposed **International Conference on Innovations in the Sphere of Biological Sciences (ISBS 2023)** is to bring the expanded universe of relevant fields to a common platform for sharing thought-provoking ideas and to provide indefinite solutions in ongoing research. The innovations and inventions in the sphere of biological sciences could be addressed by the leading scientists, academicians from premier institutes, and R&D industries in various perspectives of outstanding science. The ISBS-2023 will provide an incredible opportunity for researchers, delegates, and students to interact with each other and with eminent resource persons to get knowledge and experience on innovations and their applications in biological sciences. This International Conference intends to provide the opportunity to give oral and poster presentations by the research aspirants to spread their wisdom of knowledge to this community utilizing the mega scientific forum.

TECHNICAL SESSIONS

- ◆ Natural Products and Medicinal Chemistry
- ◆ Nanobiotechnology
- ◆ Enzyme Technology
- ◆ Plant Secondary Metabolite Production and Metabolic Engineering
- ◆ Production and Applications of Microbial Metabolites
- ◆ Waste Management and Treatment Methods
- ◆ Food Processing Technology
- ◆ Bioinformatics in Drug Discovery and Big Data Analysis
- ◆ Medical Biotechnology and Therapeutics

ABSTRACT GUIDELINES

- ✓ Participants are requested to submit an abstract by e-mail at isbs2023@gmail.com, along with transaction proof for registration fee. Abstracts will be reviewed by the Scientific Committee and assigned to appropriate sessions. Only a very limited number of abstracts will be scheduled for oral presentation and acceptance will be sent by e-mail.
- ✓ Error free abstracts not exceeding 200 words typed in MS word in Times New Roman and font size of 12 with Title, Author (italicize the presenting author), and e-mail ID to whom acceptance is to be sent should be mentioned
- ✓ Standard abbreviations only to be used

ORAL AND POSTER PRESENTATIONS

- ✓ Each oral presentation will be strictly limited to 10 minutes (including 3 minutes of discussion). The maximum poster size should be 80 cm in width and 120 cm in height
- ✓ Only research papers can be submitted for oral presentation.
- ✓ Best oral and poster presentations will be awarded.

PROCEEDINGS

- ✓ Full-length papers of all presentations (oral and poster) will be published as Proceedings with ISBN number. Publication charges will be applicable for publishing full-length papers in proceedings.


Important Dates

Deadline for abstract submission	: 06.02.2023
Notification of acceptance	: 07.02.2023
Full length paper	: 28.02.2023
Last date of registration for participation	: 10.02.2023

Registration form

International Conference on "Innovations in the Sphere of Biological Sciences (ISBS 2023)" - 15.02.2023 and 16.02.2023, Registration form

18phbcf006@avinuty.ac.in [Switch account](#)



The name and photo associated with your Google account will be recorded when you upload files and submit this form. Only the email you enter is part of your response.

* Required

Email *

Your email

Name *

Your answer

Institution Name with Address *

Your answer

City *

Your answer

2/21/23, 10:04 PM International Conference on "Innovations in the Sphere of Biological Sciences (ISBS 2023)" - 15.02.2023 and 16.02.2023, R...

State *

Your answer

Category *

Faculty

Scientists

Industry Representative

Research Scholar

PG Student

UG Student

International Delegates

Would you like to submit an abstract *

Yes

No

If yes, upload your file (Only word document)

[Add file](#)

Accommodation Required *

Yes

No

2/21/23, 10:04 PM International Conference on "Innovations in the Sphere of Biological Sciences (ISBS 2023)" - 15.02.2023 and 16.02.2023, R...

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Your answer

Date of amount paid

Date

dd-mm-yyyy

Transaction proof

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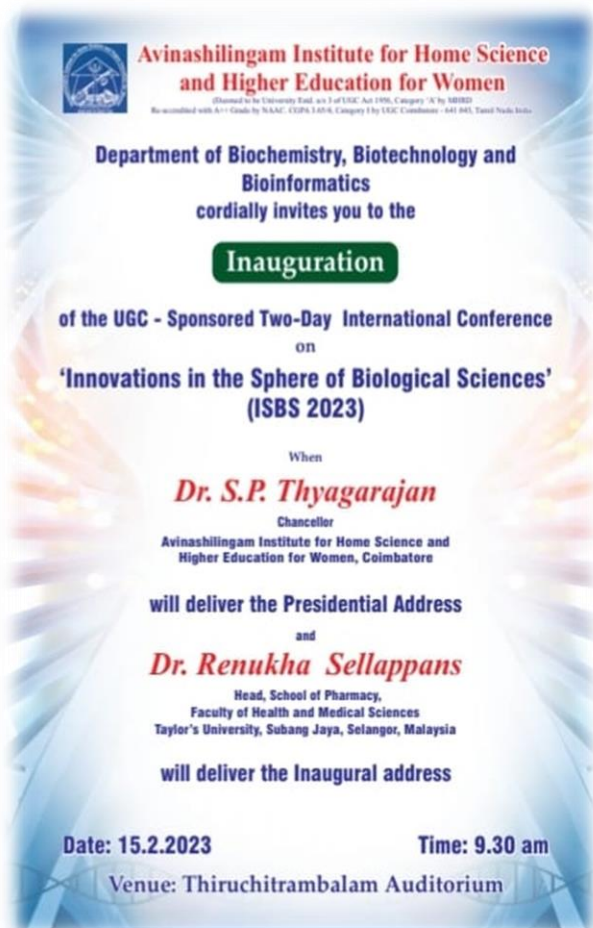
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Invitation

Inauguration



 **Avinashilingam Institute for Home Science and Higher Education for Women**
(Dotted to be University End, act 3 of UGC Act 1956, Category 'C' by MHRD)
Recognized with A++ Grade by NAAC, COPA 3.0/4, Category 1 by UGC Constituent - 641 043, Tamil Nadu, India.

Department of Biochemistry, Biotechnology and Bioinformatics
cordially invites you to the

Inauguration

of the UGC - Sponsored Two-Day International Conference
on
'Innovations in the Sphere of Biological Sciences' (ISBS 2023)

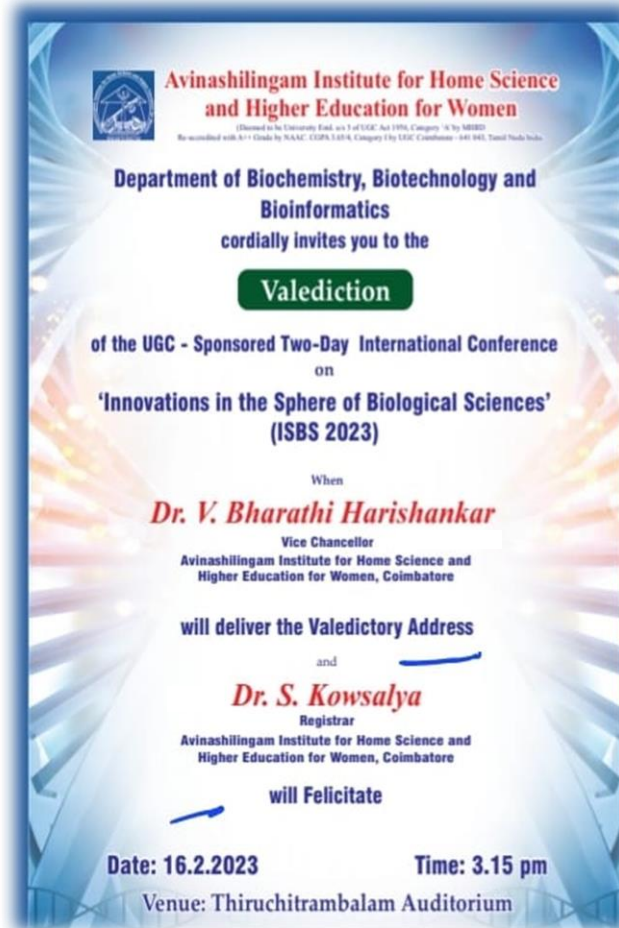
When
Dr. S.P. Thyagarajan
Chancellor
Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore


will deliver the Presidential Address
and
Dr. Renukha Sellappans
Head, School of Pharmacy,
Faculty of Health and Medical Sciences
Taylor's University, Subang Jaya, Selangor, Malaysia

will deliver the Inaugural address

Date: 15.2.2023 Time: 9.30 am
Venue: Thiruchitrabalam Auditorium

Valediction



 **Avinashilingam Institute for Home Science and Higher Education for Women**
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Department of Biochemistry, Biotechnology and Bioinformatics
cordially invites you to the

Valediction

of the UGC - Sponsored Two-Day International Conference
on
'Innovations in the Sphere of Biological Sciences' (ISBS 2023)

When
Dr. V. Bharathi Harishankar
Vice Chancellor
Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore

will deliver the Valedictory Address
and
Dr. S. Kowsalya
Registrar
Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore

will Felicitate

Date: 16.2.2023 Time: 3.15 pm
Venue: Thiruchitrabalam Auditorium

Program Schedule

Day 1 - 15.2.2023			
8.30 am - 9.30 am	Registration		
9.30 am - 11.15 am	Inauguration		
11.15 am - 11.30 am	Tea Break		
Scientific Session 1 Venue: Thiruchitrambalam Auditorium			
11.30 am - 12.15 pm	<p>Dr. Vivek T. Natarajan Sr. Principal Scientist Skin and Pigment Cell Biology CSIR-Institute of Genomics and Integrative Biology, New Delhi, India <i>'Deciphering Cell Fate Transitions in Melanocyte Lineage'</i></p>		
12.15 pm - 1.00 pm	<p>Dr. A. Veera Ravi Professor, Department of Biotechnology, Alagappa University, Karaikal, Tamil Nadu, India <i>'Innovative Strategies for the Alternatives to Antibiotics'</i></p>		
1.00 pm - 1.30 pm	Lunch Break		
Scientific Session 2 & 3			
	Academic Council Hall Hi-Tech Seminar Hall		
1.30 pm - 3.00 pm	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <p>Dr. M. Sujatha Suresh Scientific Head and Senior Embryologist, Vamsam Fertility Centre, Coimbatore, Tamil Nadu, India <i>'Innovations in Assisted Reproductive Techniques'</i></p> </td> <td style="width: 50%; border: none;"> <p>Dr. Shubashini K. Sripathi Professor, Department of Chemistry Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, Tamil Nadu, India <i>'Standardisation of Herbal Extracts - Guidelines and Protocols: A Bird's Eye View for Fresher Researchers'</i></p> </td> </tr> </table>	<p>Dr. M. Sujatha Suresh Scientific Head and Senior Embryologist, Vamsam Fertility Centre, Coimbatore, Tamil Nadu, India <i>'Innovations in Assisted Reproductive Techniques'</i></p>	<p>Dr. Shubashini K. Sripathi Professor, Department of Chemistry Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, Tamil Nadu, India <i>'Standardisation of Herbal Extracts - Guidelines and Protocols: A Bird's Eye View for Fresher Researchers'</i></p>
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1.30 pm - 3.00 pm	Poster Session / Oral Presentations		
3.00 pm - 3.15 pm	Tea Break		
Scientific Session 4 Venue: Thiruchitrambalam Auditorium			
3.15 pm - 4.00 pm	<p>Dr. Kalpana Surendranath Associate Professor and Leader of Genome Engineering Lab, School of Life Sciences, University of Westminster London, UK <i>'RNA Binding Protein ZFP36L1 Prevents Replication Stress - Induced Genome Instability'</i></p>		
4.00 pm - 4.45 pm	<p>Dr. Vaishnavi Rajagopal Head, Complement Research Lab, Immunology and Inflammation TA, Sanofi, USA <i>'Development of Macrocytic Peptide Therapeutics against Complement Targets'</i></p>		

Day 2 - 16.2.2023			
Scientific Session 5 Venue: Thiruchitrambalam Auditorium			
9.30 am - 10.15 am	<p>Dr. Raghavan Pillai Raju Professor, Department of Pharmacology and Toxicology Medical College of Georgia, Augusta University, Augusta Georgia, USA <i>'Targeting Mitochondria in Aging and Injury'</i></p>		
10.15 am - 11.00 am	<p>Dr. Santanu Chattopadhyay Scientist, G.N. Ramachandran Fellow Rajiv Gandhi Center for Biotechnology (RGCBI), Thiruvananthapuram, Kerala, India <i>'Helicobacter pylori infection and gastric diseases: not a straightforward story'</i></p>		
11.00 am - 11.15 am	Tea Break		
Scientific Session 6 Venue: Thiruchitrambalam Auditorium			
11.15 am - 12.00 pm	<p>Dr. Harish C. Chandramoorthy Vice Chairman, Center for Stem Cell Research Associate Professor, Department of Microbiology and Clinical Parasitology College of Medicine, King Khalid University Abha, Saudi Arabia. <i>'Stem Cells - Regeneration, Research, Response path leading to "Hope or Hope?"'</i></p>		
12.00 pm - 12.45 pm	<p>Dr. Bindu Krishnan Senior Statistician, Data & AI, IBM Research Software Labs, Kochi, Kerala, India <i>'Artificial Intelligence in Biological Sciences'</i></p>		
12.45 pm - 1.30 pm	Lunch break		
Scientific Session 7 & 8			
	Hi-Tech Seminar Hall Academic Council Hall		
1.30 pm - 3.00 pm	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <p>Dr. S. Jagannathan Assistant Research Officer, Tissue Culture Anti Rabies Vaccine Division & QCD - Stability Team, Pasteur Institute of India, Coonoor, The Nilgiris, Tamil Nadu, India <i>'Intricacies of Vaccine Development and Production'</i></p> </td> <td style="width: 50%; border: none;"> <p>Dr. P. Subashini Professor, Department of Computer Science Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore Tamil Nadu, India <i>'Role of Artificial Intelligence in Early Cancer Diagnosis'</i></p> </td> </tr> </table>	<p>Dr. S. Jagannathan Assistant Research Officer, Tissue Culture Anti Rabies Vaccine Division & QCD - Stability Team, Pasteur Institute of India, Coonoor, The Nilgiris, Tamil Nadu, India <i>'Intricacies of Vaccine Development and Production'</i></p>	<p>Dr. P. Subashini Professor, Department of Computer Science Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore Tamil Nadu, India <i>'Role of Artificial Intelligence in Early Cancer Diagnosis'</i></p>
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1.30 pm - 3.00 pm	Poster Session / Oral Presentations		
3.00 pm - 3.15 pm	Tea Break		
3.15 pm - 4.30 pm	Valediction		

Programme Sheet - Inauguration



Avinashilingam Institute for Home Science and Higher Education for Women

*(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12 B*

Department of Biochemistry, Biotechnology and Bioinformatics

Inauguration

of the UGC - Sponsored Two-Day International Conference
on

'Innovations in the Sphere of Biological Sciences ' (ISBS 2023) – 15.2.2023

Venue: Thiruchitrambalam Auditorium

Time: 9.30 am

Prayer

Welcome Address : **Dr. Anitha Subash**
*Professor and Head
Department of Biochemistry, Biotechnology and Bioinformatics
Avinashilingam Institute for Home Science and Higher Education for
Women, Coimbatore*

Lighting of the Lamp

Presidential Address : **Dr.S.P.Thyagarajan**
*Chancellor
Avinashilingam Institute for Home Science and Higher Education for
Women, Coimbatore*

Introduction of the Chief Guest : **Dr. M.Rajeswari**
*Assistant Professor, Co-Convenor ISBS 2023
Department of Biochemistry, Biotechnology and Bioinformatics
Avinashilingam Institute for Home Science and Higher Education for
Women, Coimbatore*

Inaugural Address : **Dr. Renukha Sellappans**
*Head, School of Pharmacy
Faculty of Health and Medical Sciences
Taylor's University, Subang Jaya, Selangor, Malaysia
'Drug Use Problems in Older Persons; A Call for Innovative
Solutions'*

Felicitation : **Dr. A. Vijayalakshmi**
*Professor and Head, Department of Botany
Dean, School of Biosciences
Avinashilingam Institute for Home Science and Higher Education for
Women, Coimbatore*

Release of Proceedings

Vote of Thanks : **Dr.D.Kavitha**
*Assistant Professor, Co-Convenor ISBS 2023
Department of Biochemistry, Biotechnology and Bioinformatics
Avinashilingam Institute for Home Science and Higher Education for
Women, Coimbatore*

Programme Sheet-Valediction



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Coimbatore – 641 043, Tamil Nadu, India*

Department of Biochemistry, Biotechnology, and Bioinformatics Valediction

of the UGC - Sponsored Two-Day International Conference
on

'Innovations in the Sphere of Biological Sciences ' (ISBS 2023) – 16.2.2023

Venue: Thiruchitrambalam Auditorium

Time: 3.15 pm

Prayer

Welcome Address : **Dr. S. Gayathri Devi**
*Professor
Department of Biochemistry, Biotechnology and Bioinformatics
Avinashilingam Institute for Home Science and Higher Education for
Women, Coimbatore*

Presentation of the Report : **Dr.D.Kavitha**
*Assistant Professor, Co-Convenor ISBS 2023
Department of Biochemistry, Biotechnology and Bioinformatics
Avinashilingam Institute for Home Science and Higher Education for
Women, Coimbatore*

Valedictory Address : **Dr. V.Bharathi Harishankar**
*Vice Chancellor
Avinashilingam Institute for Home Science and Higher Education for
Women, Coimbatore*

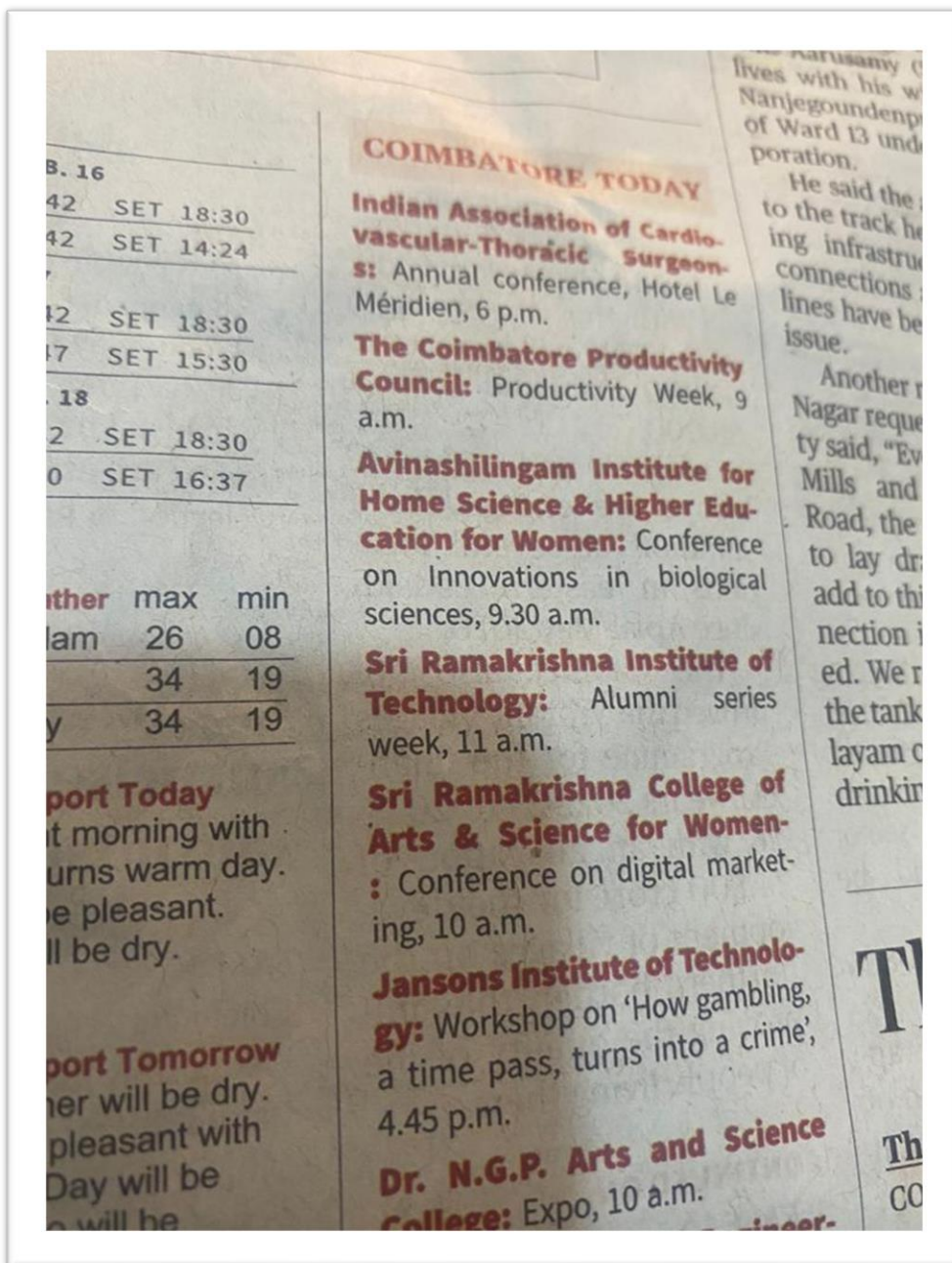
Felicitation : **Dr. S. Kowsalya**
*Registrar
Avinashilingam Institute for Home Science and Higher Education for
Women, Coimbatore*

**Presentation of Best Oral &
Poster Awards** : **Dr. M. Rajeswari**
*Assistant Professor, Co-Convenor ISBS 2023
Department of Biochemistry, Biotechnology and Bioinformatics
Avinashilingam Institute for Home Science and Higher Education for
Women, Coimbatore*

Feedback from the Participants

Vote of Thanks : **Dr. T. Angayarkanni**
*Associate Professor
Department of Biochemistry, Biotechnology and Bioinformatics
Avinashilingam Institute for Home Science and Higher Education for
Women, Coimbatore*

Press Release





Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD

Re-accredited with 'A++' Grade by NAAC.CGPA 3.65/4, Category I by UGC

Coimbatore-641 043, Tamil Nadu, India

UGC- Sponsored Two-Day International Conference on

'Innovations in the Sphere of Biological Sciences'

(ISBS 2023)

February 15th & 16th, 2023

Two-day International Conference on 'Innovations in the Sphere of Biological Sciences' was a UGC-Sponsored conference organized by the Department of Biochemistry, Biotechnology & Bioinformatics on February 15 & 16, 2023.

About the Conference

The main objective of the proposed international conference on 'Innovations in the Sphere of Biological Sciences ISBS 2023' was to bring the expanded universe of relevant fields to a common platform for sharing thought-provoking ideas and to provide indefinite solutions in ongoing research. The innovations and inventions in this sphere of biological sciences was addressed by the leading scientists, academicians from premier institutes and R&D industries in various perspectives of outstanding sciences. The ISBS-2023 provided an incredible opportunity for researchers, delegates, and students to interact with each other and with eminent resource persons to get knowledge and experience on innovations and their applications in biological sciences. This International Conference provided the opportunity of oral and poster presentations to the research aspirants to spread their wisdom of knowledge to this community utilising the mega scientific forum.

About the Institution

Avinashilingam Institute for Home Science and Higher Education for Women

The great patriot and educationist Padma Bhushan Dr. T. S Avinashilingam AyyaAvl. under the auspices of the Avinashilingam Education Trust in 1957 established Avinashilingam Institute for Home Science and Higher Education for Women. The Institute follows the educational ideals of Sri Ramakrishna, Holy Mother Sri Saradamani Devi, Swami Vivekananda and Mahatma Gandhi and upholds a life of purity, discipline and services. It is now one of the largest institutions in the country to impart quality education for women at all levels. The University has touched still higher peaks by receiving Category 'A' from MHRD, A++ Grade from



Avinashilingam University for Women

NAAC. From time immemorial, the institutional activities have focused on providing education with academic excellence, vitality of culture and values and social relevance.

Department of Biochemistry, Biotechnology and Bioinformatics

The department was established in 1969 with the introduction of M.Sc., Biochemistry. It is presently offering undergraduate, postgraduate and research programmes in Biochemistry, Biotechnology and Bioinformatics. The department has been built up with very strong roots and has grown into a full-fledged banyan, bringing Biochemistry, Biotechnology, Bioinformatics and all other allied fields under its banner. The department is very well equipped with several laboratories and instrument rooms, all of which house many state-of-the-art scientific equipment. The department is carrying out very active research in various thrust areas. The department has collaborative research activities with Korean Universities, Ohio State University, USA, Brawijaya university, Indonesia and University of Latvia.



Inaugural function of the conference

Inauguration of the conference

The International conference commenced on 15th February at 9.30AM, the inauguration was gracefully initiated with a prayer song. Dr. Anitha Subash(Convenor), Professor and Head, Department of Biochemistry, Biotechnology and Bioinformatics addressed the gathering. She welcomed Prof. S.P. Thyagarajan (Chancellor, Avinashilingam Institute for Home Science and Higher Education for Women). all eminent resource persons, Dean, School of Biosciences(Advisor), Dr.RenukhaSellappans (Chief guest), Dr. Kalaiselvi Senthil (Assistant Dean, Research and Development cell), Dr. D. Kavitha &Dr. M. Rajeswari (Co-Convenors), all staff-members, non-teaching staffs, technical persons, participants from our institute as well as from other colleges for the two-day International Conference. Dr. Anitha Subash, in her welcome address underlined the importance of women involvement in scientific research and its reflection in society and science. She warmly welcomed the gatherings by quoting the words of our Honourable Prime Minister Narendra Modi, “Today, the country's thinking is not only that women should be empowered through science, but science should also be empowered with the participation of women”.



Welcome address by Dr. Anitha Subash, Head of the Department

The conference began with the lighting of the lamp by the dignitaries on the dais. Prof.S. P. Thyagarajan delivered the Presidential address. He addressed the forum by stating, science is an eye of entire development of world due to valuable innovations happening in the field of science. He briefly overviewed the meaning of the word “innovation” which was the main theme of the conference and said that innovators are those people who look things differently and act differently. He emphasized on the latest innovations of science like the new treatment method for melanoma, advances in tissue engineering, the discovery of CRISPR CAS-9vaccine for malaria He also appreciated the innovative development of covid vaccine within a period of six months. He mentioned about the revolution of applications of Artificial intelligence in biological science such as AI in tissue engineering, early diagnosis of cancer using AI and also its role in radiology and histopathology. He said about his success of one of

his projects on Tamarapushpam which is a Siddha Drug for ulcer treatment. He and his team proved that this drug has no carcinogenic effect on the body through an innovative approach which was funded by DST-CURIE. Chancellor insisted the need of spending quality time with the children by constantly answering their questions thereby encouraging them in various activities. He advised to use half of the lecture time to conduct a good interactions or discussions with the students. He also conveyed the effectiveness of research work through interactive discussion among Scholars and Supervisors. He shared his interesting experience with one of his research scholars' research projects, where the students' family had a series of cancer death and during the Ph. D work, they found out the reason behind this fatality and this work was appreciated by many including a Nobel laureate. He concluded his speech by asking the students to come out from their comfort zone and take risk with aspiration and work hard to make every research as an innovation.



Lighting of the lamp by the dignitaries



Presidential address by Prof. S.P. Thyagarajan, Chancellor

Followed by Presidential address, Dr. M. Rajeswari introduced the chief guest Dr. Renuka Sellappans. Dr. Renuka Sellappans gave a lecture on “Drug use problems in older persons: A call for innovative solutions”. Her topic was on aging wise population. She started her speech with putting up the statics of UN global life expectancy. It stated that by the year 2050, life expectancy will be 74.5 years for males and 79.1 years for females and by 2050, one in six persons in the world will be over the age of 65. The estimation she showed also figured out that, the number of persons aged 80 years or over is projected to triple from 143 million in 2019 to 4426 million in 2050. The Chief guest mentioned about the reasons for increasing older population which includes, declining fertility, increasing longevity, medical advancement, technological advancement and social advancement. She addressed the severity of this issue, because it affects the survival of people at some point due to surviving with bad health conditions, increased disease burden to society, affecting family and economics of the society.

She mentioned about the drug usage problems in older person and gave a brief on multi-probidity, where an old individual is suffering from more than one non-communicable disease like heart failure, diabetes etc and now about 50-80% of population have multi-probidity, which increases the need for more than one medication at a time. She corelated this condition to a term, “polypharmacy”, which is an indicative of poor quality of life. Adverse drug events (ADEs) in older people due to age related physiological and metabolic changes were also well-defined by the Chief-guest. The problems in motor functions like swallowing, dysphagia, textile strength, trembling hands, and reduced flexibility of arms, reduced hand-eye coordination and loss of sensory function like impaired vision, loss of sense of smell and to hear was also mentioned by her. She also extended her talk by elaborating the susceptibility of old people to drug usage problems, including reduced drug absorption, distribution, metabolism, excretion and allergic reactions to drugs. Dr.Renuka Sellappans excellently raised some solution for this kind of challenges, which includes reduced dose options, combination of drugs to make it to single drug, age-friendly formulation, innovative packaging, change in route of administration, anti-aging medicines and with digital health solutions.



**Inaugural address by Dr.RenukaSellappans, Head, School of Pharmacy,
Faculty of Health and Medical Sciences, Taylor’s University, Subang Jaya, Selangor,
Malaysia**

She introduced various innovations that made the drug easier to older people -Generic C - friendly oral jelly formulations to improve swallowability and about the disposable micro tablets for dose dispenser and Spritam 3D printed pill which is a highly porous rapidly disintegrating pill that could incorporate upto 1000mg. She well-bridged the scientific gaps in her field of study, wherein she informed the students to study on the age-related pharmacodynamics changes on drug delivery, about drug-receptor interactions, repurposing of active drugs in older persons, define optimal therapeutical strategy for overcoming drug resistance etc. She necessitated the reason for the preclinical failure of the drug development and stressed the importance of basics of drug discovery process from preclinical to phased clinical trial stage, to adopt a holistic approach of drug discovery and to include AI, bioinformatics in drug discovery. She concluded her presidential address by giving a crisp summary of her topic.

The talk by Dr. Renuka Sellappans was followed by a warm felicitation by Dr. A. Vijayalakshmi, Dean, School of Biosciences. During her facilitation, she said that inspiration should come from anywhere and investing in science means investing in future. She said to interact and debate with people so as to get different ideas for innovation. She concluded her speech by reminding the theory of Charles Darwin ‘Survival of the fittest’ is followed by Earth and we should be aware that even plants and animal innovates themselves to survive in this world. She also appreciated the co-convenors of this event. Dr. A. Vijayalakshmi presented a memento to the Chief guest as a token of gratitude.



Felicitation by Dr. A. Vijayalakshmi, Dean, School of Biosciences

In continuation, the conference proceedings were released by the chief-guest Dr. Renuka Sellappans and the resource persons Dr. A. Veera Ravi, Dr. Vivek T. Natarajan and others on the dais, received the copy, which was followed by the formal vote of thanks by Dr. M. Rajeshwari.



Release of Conference proceedings



**Staff members of Department of Biochemistry, Biotechnology and Bioinformatics
with the Chiefguest and Speakers of Scientific Sessions**

Scientific Session 1 (11.30 am - 12.15 pm)
Deciphering cell fate transitions in Melanocyte Lineage
-Dr. Vivek T. Natarajan

Chairperson: Dr. S. Gayathri Devi, Professor, Department of Biochemistry, Biotechnology and Bioinformatics

Followed by Inauguration, scientific session was held effectively. Dr. S. Gayathri Devi introduced the speaker Dr. Vivek T. Natarajan. Dr. Vivek T. Natarajan, a senior principal scientist at the CSIR-Institute of Genomics and Integrative Biology in New Delhi, India, presented the first scientific session on the cell biology of melanocytes and its application in deciphering skin disease mechanisms. Dr. Vivek T. Natarajan started the session by emphasizing that skin colour diversity is the most variable and noticeable phenotypic trait in humans resulting from constitutive pigmentation variability. He briefed on Melanocytes, which are specialized skin cells that produce the protective skin-darkening pigment melanin, and are found mainly in the epidermis, though they occur elsewhere in birds and mammals, e.g., in the matrix of the hair. He detailed on the molecular biology of melanocytes, their biology and its distribution across different populations. He specifically discussed about the skin pigmentation diversity and genetic mapping across the population. Dr. Vivek T. Natarajan also elucidated on Genome Wide Association Studies (GWAS), which shown the association of different genomic variants with normal human skin pigmentation, often indicating genes with no direct implications in melanin biosynthesis or distribution. Identification of variants associated with pigmentation characteristics IRF 4, TYRP 1, TYR, OCAZ, MC1H, and ASIP by GWAS were also described in his talk. The speaker then explained the skin condition called vitiligo, which is characterized by the loss of pigment from areas of the skin, causing whitish patches, often with no clear cause. It is a mosaic disorder, and the patches may not always be black or white,



sometimes

both.



Dr. Vivek T. Natarajan during his scientific talk on Melanocyte lineage

Dr. Natarajan presented an *in vivo* model system for pigmentation in Zebrafish, which is an ideal model system to study pigmentation and melanocyte biology. The speaker enlightened on the continuum of biologically relevant transitions in melanocyte lineages and the establishing the role for a variant H2afv. In conclusion, his session provided insights into the cell biology of melanocytes and the application of this knowledge in understanding skin diseases such as vitiligo. The presentation emphasized the importance of genetic mapping and model systems to study the complex mechanisms involved in melanin biosynthesis and distribution. In the end of his talk, Dr. K. Manimegalai presented the momento to Dr. Natarajan as a token of appreciation.

Scientific Session 1 (12.15pm - 1.00 pm)
Innovative strategies for the alternatives to antibiotics
-Dr. Veera Ravi Arumugam

Chairperson:Dr. S. Gayathri Devi, Professor, Department of Biochemistry, Biotechnology and Bioinformatics

Dr. K. Manimegalai introduced the speaker of the session Dr. A. Veera Ravi, Professor, Department of Biotechnology, Alagappa University. He explained in brief about antibiotics and stressed its importance by highlighting it as “Magic bullets”. He focused on alternative form of antibiotics, such as Bacteriophage therapy, Bioactive compounds, Prebiotics and Probiotics. He explained the usage of bacteriophages in food safety and preservation, agriculture and aquaculture, wastewater plant treatment, environmental sanitizers in hospital, wound infections and infectious complications of surgical wounds. He gave insights on the role of prebiotics and probiotics in the maintenance of healthy microorganisms in the human intestinal gut and its availability in natural food sources like fruits, fibers and vegetables especially those that contain carbohydrates and resistant starch (eg: Soya beans, Whole grains, Greens).



Dr. A. Veera Ravi Arumugam during his invited lecture

He also explained on quorum sensing which is cell to cell communication. He detailed the mechanism of quorum sensing in gram negative bacteria i.e., *Chromobacterium violaceum* and the strategies involved in it. He also briefed on Anti-QS compounds from various natural sources. Dr. A. Veera Ravi shared and described his research work on “**Inhibition of quorum sensing mediated virulence factors production in urinary pathogen *Serratia marcescens* PS1 by marine sponges**” and “**Computational discovery of putative quorum sensing inhibitors against LsaR and RhiR receptor proteins of *pseudomonas aeruginosa***”. The session was interactive and useful. The resource person was honoured with a memento as a token of gratefulness by Dr. S. Gayathri Devi.

Scientific Session 2 (1.30 pm – 3.00 pm)
Innovative strategies for the alternatives to antibiotics
-Dr.M.Sujatha Suresh

Session 2 and 3 was held as a parallel session by Dr.M.Sujatha Suresh at Academic council hall and by Dr.Shubashini K. Sripathi at Hi-Tech Seminar Hall under the theme Medical Biotechnology and Nanobiotechnology and Medicinal Chemistry.

Chairpersons

-Dr. M. Sujatha Suresh, Senior Embryologist and Scientific Head, Vamsam Fertility Centre, Coimbatore

Dr. R. Nirmaladevi, Assistant Professor-SG, Department of Biochemistry, Biotechnology and Bioinformatics



Dr. R. Nirmala Devi, introduced the speaker Dr. M. Sujatha Suresh as the resource person of this session. The session started with the basics of fertilisation where she explained the definition of fertilisation, the endocrine control of female and male gametes, the steps involved in the hormone production. She also taught on how gametes are produced and briefed about the menstrual cycle which is a 28 days process and also about the different hormones and its role in the menstrual cycle. Sperm production and its transport through female genital organs and also its structure was also explained by the speaker. She gave an insight on the difference between normal fertilisation and infertility. Factors contributing to the infertility of women and men were also listed by the speaker. The factors like PCOD, fibroid uterus, endometriosis, hydrosalpinx and uterine anomaly can cause infertility in women and in men, low sperm count, low sperm motility, sperm morphology, environments factors, drugs, alcohols and smoking can

cause infertility and existing treatment options like hormonal therapy and IVF were explained by the speaker. She focussed on the main assisted reproductive techniques starting with history of IVF and about first test tube baby. She detailed on the intrauterine insemination (IUI) where the sperms are placed directly into uterus; this is done in the case of low sperm count or sperm motility. She taught on IVF which is done to help a woman become pregnant, which is used to treat causes of infertility, including: Advanced maternal age and Damaged or blocked fallopian tubes (caused by pelvic inflammatory disease or prior reproductive surgery). She also mentioned about the steps involved in it - ovarian stimulation, egg retrieval, sperm retrieval, fertilization and embryo transfer. The process of Intracytoplasmic sperm injection was also shared by the speaker which involves injecting a single live sperm directly into the center of a human egg. In addition, she explained about various sperm retrieval techniques like Microsurgical Epididymal Sperm Aspiration (MESA), Testicular Sperm Extraction (TESE) and Percutaneous Epididymal Sperm Aspiration (PESA). The session came to an end with clarification by the speaker to the queries raised from the audience. Dr. R. Nirmaladevi presented a memento as a token of thankfulness to Dr. Sujatha Suresh

Scientific Session 3 (1.30 pm – 3.00 pm)

Standardization of herbal extracts- Guidelines and Protocols:A Bird's eye view for Fresher Researchers

- Dr.Shubashini K. Sripathi

**Chairpersons–Dr.Shubashini K. Sripathi, Professor, Department of Chemistry
- Dr. A. Shobana, Assistant Professor-SS, Department of Biochemistry,
Biotechnology and Bioinformatics.**

On 15th February 2023, the afternoon session was lectured by Dr.Shubashini K. Sripathi, Professor, Department of Chemistry, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore at Hi-Tech seminar hall. Dr. A.Shobana, Assistant Professor, Department of Biochemistry, Biotechnology and Bioinformatics welcomed the gathering and introduced the speaker. The lecture was under the theme "Nanobiotechnology and Medicinal Chemistry", where Dr.Shubashini K. Sripathi emphasized on the importance of herbs and herbal extracts in natural medicine. The speaker gave a talk on the significance of plants and their biological activities, *in vitro* and *in vivo* strategies, Targeted therapy, Standardization Protocol for plants, Pharmacopeia and ICMR guidelines of drug development. She mainly focused on targeted therapy and Pharmacopeia. She also gave various aspects in the field of Nanobiotechnology and Medicinal Chemistry. The momentum was given to the Chief guest Dr. Subhashini K. Sripathi by Dr. A. Shobana, as a token of gratitude. The session was very useful and inspired the audience to take up research.



Invited talk by Dr.Shubashini K. Sripathi

Oral and Poster presentations

These parallel sessions were followed by the oral presentations under the corresponding theme. The presentations after the lecture were judged by the speakers of the session. Similarly, parallel oral presentations were held at Gallery and Room No.48, Department of Biochemistry, Biotechnology and Bioinformatics. Poster presentation was conducted separately and judged by Dr. Vivek T. Natarajan and Dr. A. Veera Ravi.

Various faculties, Research Scholars and Students of Avinashilingam Institute for Home Science and Higher Education for Women, Dayalbagh Educational Institute, Agra, Sahrdaya college of Engineering and Technology, Thrissur, Dr. NGP Arts and Science College, Rajiv Gandhi Centre for Biotechnology, Trivandrum, Bharathiar University, Hindustan college of Arts and Science, PSG college of arts and science, PSG college of Technology, Kumaraguru College of Technology and Ramakrishna arts and science for women, participated in the conference. There were two International participants- Ms. Anjana from Korea and Ms. Ilakiya from Canada.

Totally 300 participants registered for the conference. 230 participants attended the conference on the day of the event. 132 participants presented their work as poster presentations and 46 participants did oral presentations.

Oral presentation

The oral presentations were held parallelly at Gallery and Bioscience Seminar Hall from 2.30pm-4.00pm.

Chairpersons for the theme ‘Phytopharmaceuticals’

Dr. V.E. Ida Christi, Professor and Head, Department of Pharmacognosy, PSG College of Pharmacy, Coimbatore and Dr. S. T. Yamuna, Assistant Professor, Department of Biochemistry, Biotechnology and Bioinformatics.

Chairpersons for the theme ‘Environment and Sustainable Development’

Dr.S.Suja, Professor and Head, Department of Biochemistry, Bharathiar University, Coimbatore judged the presentations and Dr. E. Nithya, Assistant Professor, Department of Biochemistry, Biotechnology and Bioinformatics.

The oral presentation by the Research Scholars and Delegates in all these sessions are mind-blowing and the topics are distinct from each other. Anticancer activity of nanoparticles, Metal accumulation of *Withania somnifera*- *in silico* analysis, Effect of green synthesis nanoparticles, Metal ion fingerprinting and Biofilm properties werethe topics covered in the presentations. Queries were raised from the audience and Chairperson and the session was very interactive. Chairperson also made suggestions to improve the presenter's research work. The resource persons was honoured with a memento as a token of love by Dr. S. T. Yamuna and Dr.E.Nithya.

Poster Session I

Time: 2.30 pm - 4.00 pm

Chairpersons for the poster presentation

Dr. Vivek Natarajan, Sr. Principal scientist skin and pigment cell biology, CSIR-Institute of Genomics and Integrative Biology New Delhi, India and Dr. A. Veera Ravi, Professor, Department of Biotechnology, Alagappa University, Karaikudi.

As a part of the conference poster presentation was conducted at Thiruchitrambalam auditorium and the participants had the opportunity to showcase their research work. The posters covered a wide range of topics in the biological sciences including biotechnology, microbiology, biochemistry, genetics and molecular biology. This poster presentation was judged by Dr. Vivek T. Natarajan and Dr. A. Veera Ravi. The poster presentations formed as a platform to interact with the speakers, where they shared their opinions, thoughts and suggestion to the participants.



Oral and Poster presentations

Scientific Session 4 (3.15 pm – 4.00 pm)
**RNA binding protein ZFP36L1 prevents replication stress –
induced genome instability**
-Dr. Kalpana Surendranath

**Chairperson:Dr. Anitha Subash, Professor and Head, Department of Biochemistry,
Biotechnology and Bioinformatics**

Dr. E. Nithya, Assistant professor introduced the resource person Dr. Kalpana Surendranath. Dr. Kalpana Surendranath is an Associate Professor and Leader of the Genome Engineering Lab, School of Life Sciences, University of Westminster, London, UK. The speaker began her talk by discussing the importance of targeting cancer vulnerabilities, specifically focusing on the key mediator of preventing genome stability during aphidicolin-induced replication stress - ZFP36L1. The ZFP36 family of proteins has been a subject of research in the field of cancer for over three decades, and the speaker enlightened new findings from their lab. She conversed on involvement of these proteins in post-transcriptional gene regulation by binding to adenosine-uridine-rich elements (AREs) in the 3' untranslated regions of mRNAs. The emerging role of ZFP36L1 in identifying novel cancer-driven genes and AU-rich RNA-binding proteins (AU-RBPs) involved in DNA repair and replication stress response was also briefly explained.



Dr. Kalpana Surendranath delivering her talk virtually

The speaker insisted on the contributing role of three zinc fingers, ZFP36, ZFP36L1 and ZFP36L2 in genome stability during DNA damage. She also elaborated on the creation of double-stranded DNA breaks and their conversion into 200 proteins. Additionally, the speaker well-described and defined CSRIPR, a protein involved in DNA repair and replication stress response. In addition to this, the speaker presented a review paper by Solaiman and Sidall *et al.*, which dealt the recent advances in CRISPR/Cas9-mediated genome editing and its applications in cancer research. The speaker's talk provided valuable insights into the latest research in the field of cancer biology and the role of ZFP36L1 in genome stability during DNA damage.

The speaker's talk was informative and engaging, and provided valuable insights into the latest research in the field of cancer biology. The audience had the opportunity to learn

about the emerging role of ZFP36L1 and AU-RBPs in cancer-driven gene identification, DNA repair, and replication stress response. The speaker's expertise and knowledge in the subject were apparent, and her presentation was well-received by the attendees.

Scientific Session 4 (4 pm – 4.45 pm)
Development of Macrocyclic peptide therapeutics against complement targets
-Dr Vaishnavi Rajagopal

Chairperson: Dr. Anitha Subash, Professor and Head, Department of Biochemistry, Biotechnology and Bioinformatics

Dr. M. Sudha Devi introduced the speaker for the session, Dr. Vaishnavi Rajagopal, Head, Complement Research lab, Immunology and inflammation TA, Sanofi USA. Dr. Vaishnavi Rajagopal gave her lecture on “Development of Macrocyclic Peptide Therapeutics against Complement Targets”, virtually. She explained the overview of different display technologies used during peptide discovery. She briefed on cell and cell free techniques and showed the pictorial representation of yeast, ribosome and phages. Her talk also gave a gist on mRNA display technologies and cyclic processes and other processes like amplification and dual-purpose nucleic acid barcode. She explained about RNA's extreme diversity TM platform-mRNA display technologies and its advantages. The importance of these technologies in peptide synthesis, which is a macrocyclic and reverse transcription process was well-defined by the speaker. Additionally, she added on PNH (Paroxysmal Nocturnal Hemoglobinuria), which is a rare blood disorder where the body's immune system affects the complement cascade. The progression of PNH in affecting lung, mouth, gut, circulation, kidney and eye and immortality in thrombosis, MAC formation and intravascular hemolysis were also briefed by her. Dr. Vaishnavi Rajagopal concluded the session with a brief note on treatment modalities and zilucoplan (a chemical compound), which would suppress the complement system in human body. Dr. Anitha Subash presented a Memento to Dr. Vaishnavi Rajagopal as a token of appreciation.



Dr. Vaishnavi Rajagopal, Head, Complement Research Lab, Immunology and Inflammation TA, Sanofi, USA.

Day 1 came to an end with these scientific sessions, which was really informative and engaging.

DAY-2

Day 2 of the conference was started with the same enthusiasm from the participants and the day began with the 5th Scientific session.

Scientific Session 5 (9.30 am – 10.15 am) **Targeting Mitochondria in Aging and Injury** **-Dr Raghavan Pillai Raju**

Chairperson – Dr. T. Angaiyarkanni, Associate Professor, Department of Biochemistry, Biotechnology and Bioinformatics

Dr. K.V.Shalini introduced the speaker Dr. Raghavan Pillai Raju, Professor, Department of Pharmacology and Toxicology, Medical College of Georgia, Augusta University, Georgia, USA, who joined virtually for this session delivered a talk on mitochondrial targeting in aging and injury. He explained how aging influence outcome after injury. He shared his research work done in an animal model for hemorrhagic shock and explained how it altered the molecular mechanism, and the survival. He mentioned about some agents, such as resveratrol, niacin and dichloro-acetate to improve mitochondrial function and modify survival. He also explained the mechanism of action of resveratrol on mitochondria, which would activate sirt activator and would prolong life after hemorrhagic shock. He mentioned how resveratrol works toward hemorrhagic shock as well hypoxia. He extended his views on the study of the effect of dichloro-acetate and its step toward hemorrhagic shock. He added on the physiological and molecular responses following hemorrhagic shock, which include hypoxia, nutritional stress, ER stress, oxidative stress and mitochondrial dysfunction. He also highlighted the emerging concepts in aging biology focused on NAD and common stress-induced phenotypes with aging. He described on the process of rejuvenating with young blood and circulating factors. Dr. Raghavan Pillai Raju has also shared his knowledge on the effect of circulating plasma factors on hemorrhagic shock. The speaker concluded his talk by saying that mitochondrial targeting with resveratrol, dichloro-acetate and niacin prolongs life following hemorrhagic shock and there is an age-associated increase in mortality following acute injury, beginning with post-maturation.



D

Scientific Session 5 (10.15am – 11am)

***Helicobacter pylori* infection and gastric disease: not a straight forward story**

-Dr Santanu Chattopadhyay

Chairperson – Dr. T. Angaiyarkanni, Associate Professor, Department of Biochemistry, Biotechnology and Bioinformatics

Dr. C.C.S. Vasundara, introduced the speaker Dr. Santanu Chattopadhyay, Scientist, GN Ramachandran Fellow, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala. The speaker Dr. Santanu Chattopadhyay surprised us by expanding his views on complete story of *Helicobacter pylori* with Koch's ideas. He mentioned the mechanism of action of *H. pylori* and VacA and CagA genes. He extended his research ideas in the field of identification of *H. pylori*, isolation of pylori, DNA fingerprinting, phylogenetic analysis, genotyping, and sequencing. He explained his molecular research on the microbial diversity concerning *H. pylori* infection status in the human stomach. He shared his knowledge about metagenomic analysis of the whole genome and shotgun metagenome. He explained in detail about the cytotoxin-associated gene A (CagA), which has a western type and an east Asian type. His study included a phylogenetic analysis of the *H. pylori* strains isolated from Sikkim and focused on MLST genes of 323 *H.pylori* strains, of which 25 strains were from Sikkim and 298 from different parts of the world. He mentioned about the mutational study of *H. pylori*CagA c-terminal ends, which are unique in Sikkim. His talk extended to the AMR profile of *H. pylori* strains from both Sikkim and Trivandrum population and about mutations associated with antibiotic resistance. The session was concluded interactively. Dr. T. Angaiyarkanni presented the Momento to Dr. Santanu Chattopadhyay as a token of gratitude.



Dr. Santanu Chattopadhyay delivering his talk

Scientific Session 6 (11.15am – 12.00 pm)

Stem cells Regeneration Research, Response path leading to "Hope or Hype"

-Dr. Harish C. Chandramoorthy

**Chairperson – Dr.S. Sumathi, Associate Professor, Department of Biochemistry,
Biotechnology and Bioinformatics**

Dr. A. Poornima introduced the speaker of the occasion Dr. Harish C. Chandramoorthy, Vice Chairman, Centre for Stem Cell Research, Associate Professor, Department of Microbiology and Clinical Parasitology, College of Medicine, King Khalid University, Saudi Arabia, who delivered his talk virtually. Dr. Harish gave a fascinating presentation on basics of stem cells, properties and its potential to regenerate. He also gave an overview about the stem cells transplantation, highlighting the success and failure rates of a SCT. Concepts of cells regenerative capacity recognized as early as 1900 by Arthur Pappenheim (1870-1916) University of Berlin in 1895, Founder and Publisher of Folia Haematologica, was briefed by the speaker. He gave a detailed talk on stem cells, which are known as generic or undifferentiated cell that can make exact copies of itself. Types of stem cells like Totipotent, Pluripotent, Multipotent, Oligopotent, Unipotent stem cells and variability of stemness associated with niche or anatomical location were taught by the speaker. Regeneration Mesenchymal Stem cells (MSC) and Stem cell banking, stem cell transplant was explained by him. He gave a glimpse on the classical major types of stem cells like Embryonic, Adult, Induced Pluripotent stem cells.



Invited lecture by Dr. Harish C. Chandramoorthy

He addressed on the therapeutic strategies using stem cells to cure any clinical condition and also, he mentioned the stem cells as futuristic medicine and commercial hub for many Biotech related products. He stressed on Stem cells banking responses and opportunities in the field of stem cell. He conveyed an information that there is no food & drug administration (FDA) were approved for (MSC) Mesenchymal Stem cell therapy on the market in the United States. He also added that, few MSC Products have been granted regulatory approval in other Countries. Stem cells will replace animal cells in nearistic future in fields like Cell Culture monoclonal antibodies, Molecular biology especially culturing in primary stem cells research, Cultured Pluripotent Stem cells for tissue cells for transplantation to study by cell differentiation and to identify drug target and test potential therapeutics, Toxicity testing, Bone marrow, nerve cells, heart muscle cells and pancreatic islet cells.

He showed an estimation that, Stem cells /organ transplantation successful rate were 59.6% and failure rate was 40.4% during 2004-2018. He elucidated on hope of Stem cell transplantation, which includes Autologous stem cell transplantation, allogenic Stem cell transplantation, Autologous or allogeneic transplantation, Malignant Diseases, non-Malignant Diseases, other non-malignant Diseases and Autoimmune Diseases. He added on its limitations like HLA Typing, 6-6match engraftment and disadvantages of different Hematopoietic stem cells are GVHD, Acute Rejection and complications, include, chronic, chemotoxicity, graft rejection, (SOS)-(VOD). Glioblastoma stem cells -Brain tumor. He mentioned and clarified about the challenges in storage of Stem cell and cryofreezing techniques. He concluded his talk by stating, “Stem cells is not one stop treatment for all human Diseases”.

Scientific Session 6 (12.00pm – 12.45 pm)

The role of Artificial intelligence in biological sciences-Dr. Bindu Krishnan

Chairperson-Dr. S. Sumathi, Associate Professor, Department of Biochemistry, Biotechnology and Bioinformatics

Dr. C.C.S Vasundara introduced the speaker Dr. Bindu Krishnan, Senior Statistician, Data and AI, IBM Research Software Labs, Kerala. She started her session with a brief definition on Intelligence, Artificial intelligence and Machine learning. She explained in detail about the role of Artificial intelligence in biological sciences and its applications in various

fields, such as health care, education, marketing, banking, gaming, finance, agriculture, cyber security, social media, space exploration, robotics, autonomous vehicle etc., She practically approached the audience about the knowledge of AI with some well-known examples like Sophia, Alexa, Siri, Google assistant. She also clearly stated the difference between Artificial Intelligence, Machine Learning and Deep Learning. She outlined the architect of Artificial Neural Network (ANN) as a biologically inspired computational network, which could simulate the way the human brain analyses and processes information. Dr. Bindu Krishnan detailed on the advantages of ANN platform and its role in statistical standards. She also added the uses of AI/ML in biological sciences, which include prediction of genomic features, sequence specificities of DNA and RNA-binding proteins, enhancers, and other regulatory regions on data generated by one or multiple types of omics approach and to predict regulatory elements and non-coding variant effects from a DNA sequence that can then be tested/validated for their contribution to gene regulation and observable traits and pathologies. The resource person concluded the session with an informative summary which provided more knowledge and gave an idea on how to make use of AI/ML for research purposes. The resource person was honoured with a memento as a token of love by Dr. Sumathi.



Dr. Bindu Krishnan delivering a talk on Artificial intelligence in biological sciences

Session 7 and 8 (1.30pm - 3 pm)

Session 7 and 8 was held as a parallel session by Dr. S. Jagannathan at Hi-Tech Seminar Hall and by Dr. P. Subashini at Academic council hall.

Scientific Session 7 (1.3pm – 3.00 pm)

Intricacies of vaccine development and production

Dr. S. Jagannathan

Chairpersons

Dr. S. Jagannathan, Assistant Research Officer, Tissue Culture Anti Rabies Vaccine Division and QCD - Stability Team Pasteur Institute of India Coonoor, Nilgris and Dr. S. Velvizhi, Assistant Professor-SS, Department of Biochemistry, Biotechnology and Bioinformatics

Dr. S. Velvizhi introduced the speaker of the Session Dr. S. Jagannathan. Dr. S. Jagannathan gave a talk on Intricacies of Vaccine Development and Production. He interacted with the participants about vaccine, Immunity, Infection and Disease. He gave an elaborated talk on vaccine, vaccine development, types of vaccine, components and mechanism of vaccine. He also conveyed about the facts of vaccine and Immunization techniques and techniques in vaccine development. Dr. S. Jagannathan, in his talk, focussed on the stages of vaccine development, characterization, Formulation dosing in animals, regulatory approval and failures in vaccine development. His session ended in an interactive manner and Dr. S. Velvizhi presented the momentum to him as a token of gratitude.

Followed by the talk, the oral presentation by the participants was continued under the theme Therapeutics, which was held in Hi-Tech seminar hall. Dr. S. Jagannathan acted as the Judge. Out of 230 participants, 46 participants done oral presentations in total, among which one of the participants presented her work online from Korea.

Scientific Session 8 (1.30pm – 3.00 pm)

Role of Artificial Intelligence in Early Cancer Diagnosis- Dr.P. Subashini

Chairperson- Dr. N. Santhi, Assistant Professor-SS, Department of Biochemistry, Biotechnology and Bioinformatics

Dr. N. Santhi introduced the speaker Dr. P. Subashini, Professor, Department of Computer Science, Avinashilingam Institute for Home Science and Higher Education for Women. She gave an introduction about center of machine learning and intelligence. She said about how Artificial Intelligence algorithms help clinicians in diagnosis of cancer. The steps involved in this process were explained well by Dr. P. Subashini, which included Screening the patients who are at high risk of cancer, investigating and triaging symptomatic patients and more efficiently diagnosing cancer recurrence.



The speaker Dr. P. Subashini delivering her talk

She also elaborated on different data types like Electronic health care records, Digital databases, Radiology- diagnostic images, Digital pathology, Peripheral blood data types, Multi- omic data, Radiomic, Genomic, Transcriptomic, Metabolomic and clinical factors, that were suitable for computational analyses. She also elucidated on the approaches in diagnosis of cancer using AI includes, Logistic regression, Deep learning and Neural networks. Dr. Subashini specifically briefed on Symptomatic Patient Triage, which requires the decision support tools and online symptom checkers. She also in her talk, focused on stratified screening, which includes the automated eligibility screening with NLP and risk estimation. She elaborated on Recurrence detection/ prediction, which involves prediction modelling, imaging and pathology risk stratification, and also the prediction of treatment failures. Dr. N. Santhi presented the Momento to Dr. P. Subashini as a token of love.

Followed by the scientific session, Oral presentation was conducted under the theme Bioinformatics and Big data analytics, which was held in Hi-Tech seminar hall. The presentations were judged by the Chairpersons of the session and suggestions were given to the presenters to improve their research work.

Poster Presentation II

Chairpersons-Dr. G. Maheswari

Poster presentation was continued on 16th January, 2023 which featured 39 posters from various universities and colleges. Of the 39 posters, 36 were from Avinashilingam University, 2 from PSG College of Technology, and 1 from Ramakrishna College for Arts and Science.

The posters covered a wide range of topics in the biological sciences, including biotechnology, microbiology, biochemistry, genetics, and molecular biology. The posters reflected original research findings, experimental data, and innovative ideas, providing a glimpse into the future of biological sciences. The poster presentation was judged by Dr.G. Maheshwari, Assistant Professor(SS), Department of Zoology, Avinashilingam University. The judging criteria included the quality of the research, the relevance of the topic to the conference theme, the clarity and effectiveness of the presentation, and the overall contribution to the field of biological sciences.

Valedictory function (1.30pm - 3 pm)

The valedictory function of the ISBS-2023 conference was held on 16th February 2023 at 3:15 pm at the Thiruchitrabalam auditorium at Avinashilingam Institute for home science and higher education for women. The conference was conducted by the Department of Biochemistry, Biotechnology, and Bioinformatics. The function began with a welcome address by Professor Dr.S.Gayathri Devi, followed by a report of the conference by Dr.D.Kavitha, Assistant Professor and Co-Convenor of ISBS 2023.

The Vice Chancellor Dr.V.Bharathi Harishankar delivered the valedictory address, and the function was felicitated by the Registrar Dr.S.Kowsalya. The presentation of the best oral and poster awards was announced by Dr. M. Rajeswari, Assistant Professor and Co-Convenor of ISBS 2023. The winners were awarded under each category with the theme of medical

biotechnology, Nano biotechnology and medicinal chemistry, Therapeutics, Bioinformatics and Big data analytics, Phytopharmaceuticals, Environment and sustainable development.

"Innovation in the Sphere of Biological Sciences ISBS 2023" conference was a successful event that provided an excellent platform for researchers, academicians, and industry professionals to discuss and share their knowledge and insights on various aspects of biological sciences. The conference helped to advance the field of biological sciences and provided a forum for collaboration and networking among researchers.

The conference came to an end with a formal vote of thanks by Dr. T. Angayarkanni, Professor, Department of Biochemistry, Biotechnology, and Bioinformatics at the Avinashilingam Institute.



Valedictory photos **ion**



Vice-Chancellor and Registrar addressing the gathering during Valediction



Prize distribution



Interaction of participants



Feedback from the participants were elicited and Certificate of participation was released to all the attendees.



Certificate



Thus, the UGC-Sponsored two-day International Conference on Innovation in the Sphere of Biological Sciences (ISBS – 2023) provided a valuable opportunity for researchers and students to showcase their work, exchange ideas, and gain insights from peers and experts in the field. The oral and poster presentations emphasized innovations and intricate concepts in biological sciences, and the collaborative nature of scientific research. Overall, the conference was a great success and contributed significantly to the theme of the conference providing insights towards futuristic research.



Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category 'A' by MHRD, Estd.u/s 3 of UGC Act 1956)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC under section 12B
Coimbatore - 641043, Tamil Nadu, India

Department of Food Science and Nutrition
Nutrition Association and Nutrition Society of India (Coimbatore Chapter)&

University of Reading, United Kingdom

Cordially invites you for the

International Webinar

"Using Genetic Data to Strengthen Causal Inference in Nutritional Epidemiological Research"

Prof. Vimal Karani S

Professor of Nutrigenetics and Nutrigenomics
Deputy Director of the Institute of Food, Nutrition and Health
University of Reading, United Kingdom



Date: 01/04/2023

Time: 10.00 IST

FREE

REGISTRATION

*e-Certificate will
be issued for all
the participants*

Chief Patrons

Dr.T.S.K. Meenakshisundaram, Managing Trustee
Prof.S.P. Thyagarajan, Chancellor

Patrons

Dr. V. Bharathi Harishankar, Vice Chancellor
Dr.S.Kowsalya, Registrar

Advisors

Dr.N.Vasugi, Dean, School of Home Science
Dr.M.Sylvia Subapriya, Professor and Head, Dept. of FSN

Convenor

Dr. C.A. Kalpana, Deputy Dean, School of Home Science and
Professor, Dept. of FSN

Organising Secretary

Dr.R. Balasasirekha, Assistant Professor (SS), Dept. of FSN

Registration link: <https://forms.gle/SF2tEivxzEsMwUQA9>

Google Meet link: <meet.google.com/uoe-ysbg-frj>

Live streaming link: <stieam.meet.google.com/stieam/8f2cdd74-7826-45a5-8d46-d33e438a3033>



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Nutrition Association and Nutrition Society of India (Coimbatore Chapter)
&
University of Reading, United Kingdom

International webinar

Using Genetic Data to Strengthen Causal Inference in Nutritional Epidemiological Research

1st April 2023, 10.00 IST

Prayer Song	Ms. Sairakshaa II M.Sc. FSN
Welcome Address	Dr. C.A. Kalpana Deputy Dean, School of Home Science and Professor, Dept. of FSN
Inaugural Address	Dr.S. Kowsalya Registrar Avinashilingam for Home Science and Higher Education for Women, Coimbatore
Felicitation	Dr.N. Vasugi Dean, School of Home Science
Greetings	Dr.M.Sylvia Subapriya Professor and Head, Dept. of FSN
Introducing the Chief Guest	Ms. Somali Ghosh Ph.D. Scholar, Dept. of FSN
Resource Person	Prof. Vimal Karani S Professor of Nutrigenetics and Nutrigenomics Deputy Director of the Institute of Food, Nutrition and Health University of Reading, United Kingdom
Vote of Thanks	Dr.R. Balasasirekha Assistant Professor (SS), Dept. of FSN

International Webinar
“Using Genetic Data to Strengthen Causal Inference
in Nutritional Epidemiological Research”

Date: 01.04.2023; Venue: Google Meet; Time: 10:00am – 12:00pm

Objectives

- To motivate the students to show interest in the forthcoming technologies between nutrition and genetics.
- To understand the methods of collecting genetic data using meta-analysis in a population.
- To provide knowledge on the metabolic pathway of vitamin D and factors which affect it.
- To provoke the participants in taking up research studies on nutrigenetics and nutrigenomics.
- To build cordial relationship with international research scientists and scholars to exchange expertise.

About the Webinar

The Department of Food Science and Nutrition, Avinashilingam Institute for Home Science and Higher Education for Women in Collaboration with University of Reading, Reading, United Kingdom organized a virtual International Webinar on “Using Genetic Data to Strengthen Casual Inference in Nutritional Epidemiological Research” on 1st April 2023 via Google Meet platform. The Resource person Professor Vimal Karani S, Faculty of Nutrigenetics and Nutrigenomics, Deputy Director of the Institute of Food, Nutrition and Health, University of Reading, United Kingdom. The program was well coordinated and organized by the Convenor Dr. C. A. Kalpana, Deputy Dean, School of Home Science and Professor and the Organizing Secretary Dr. R. Balasasirekha, Assistant Professor (SS), Department of Food Science and Nutrition, Avinashilingam Institute for Home Science and Higher Education for Women. 617 participants registered for the workshop out of which 40 participants represented from 8 countries namely Indonesia, Bangladesh, Japan, Saudi Arabia, Malaysia, Nepal, Pakistan, United Kingdom and remaining participants from India (Andhra Pradesh, Karnataka, Chattisgarh, Delhi, Gujarat, Haryana, Himachal Pradesh, Jammu, Kashmir, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Manipur, Mizoram, Odisha, Puducherry, Rajasthan, Telangana, Uttar Pradesh, Uttarkhand, West Bengal and Tamil Nadu) representing 162 institutions. Totally 174 participants actively participated through Google Meet and 24 through Google livestream. E-certificates were provided to all the active participants joined online.

By Honouring the Chief Patrons and Patrons, Ms. Nongbaithe Babitha Devi, Ph.D Scholar, Department of Food Science and Nutrition, Avinashilingam University, welcomed everyone and commenced the virtual meet. The webinar began with an invocatory prayer by Ms. Sairakshaa. S, II M.Sc student. The welcome address was delivered by Dr. C. A. Kalpana to bid salute to the participants who congregated from eight different countries, followed by the inaugural address presented by the enthusiastic Registrar, Dr. S. Kowsalya, Professor of

Food Science and Nutrition, Avinashilingam University. The Dean, School of Home Science, Dr. N. Vasugi cordially greeted and felicitated the gathered participants online. Dr. M. Sylvia Subapriya, Professor and Head of the Department, Food Science and Nutrition, offered her warmest greetings to the participants. Ms. Somali Gosh, Ph.D. Scholar, took the honour of introducing the chief guest to the gathering. The key note speaker took over the session.

Professor Vimal Karani, who is a well familiar personnel to the Institute took the opportunity to show his gratitude for inviting him for this international webinar. He began his speech by briefly talking about the state of nutrigenetics and nutrigenomics at present. In his presentation on the topic ‘Using Genetic Data to Strengthen Casual Inference in Nutritional Epidemiological Research’, Sir started by explicating the Mendelian Randomization a technique for examining the causal impact of a modifiable exposure on disease in observational studies by using measured variation in genes with known functions. Mr. Vimal also interpreted the interrelationship between vitamin D and genetic information highlighting on the metabolic pathway of vitamin D and its absorption rate in the presence of any metabolic disorder. In his research study, Sir showed the BMI genetic risk score in association with vitamin D through meta-analysis. Mr. Vimal emphasised on the increased milk intake and its effect on metabolic syndrome. Sir touched upon various studies and research papers regarding vitamin D and genetics and ended his speech by summarizing the facts on the topic. The participants were overwhelmed by the knowledge showered by the key note speaker and that lead to an interactive session. The session was truly an enriching experience graced by national and international scholars and the intellectual interaction kept all the participants thoroughly engaged. The final remarks and vote of thanks was by Dr. R. Balasasirekha, Assistant Professor (SS), Department of Food Science and Nutrition.

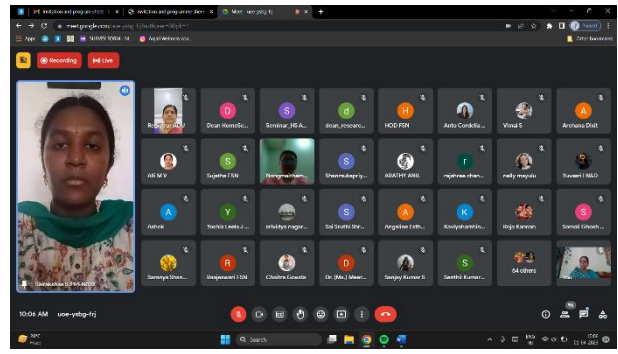
Outcomes

- The participants gained several information about epidemiological studies and its role in gathering genetic data.
- Understanding the role of metabolic syndrome in vitamin D absorption and metabolism.
- Profound realization on the importance of genetic information, nutrition and diet pattern on human beings.
- Effect of consumption of different types of milk and other intrinsic factors on vitamin D absorption.
- People who were unaware about the methods of quantifying data on nutrigenetics, were well informed.

Gallery



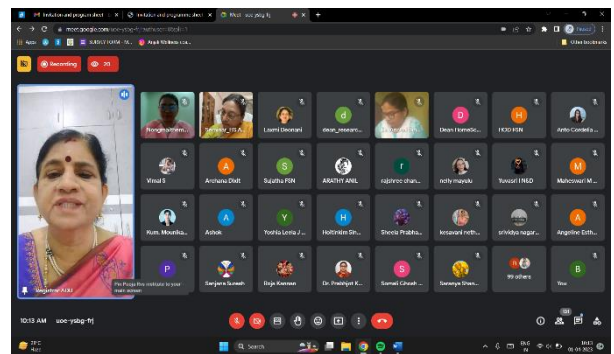
Compering by Ms. Nongbaitthem Babitha Devi,
Ph.D Scholar, Dept of FSN



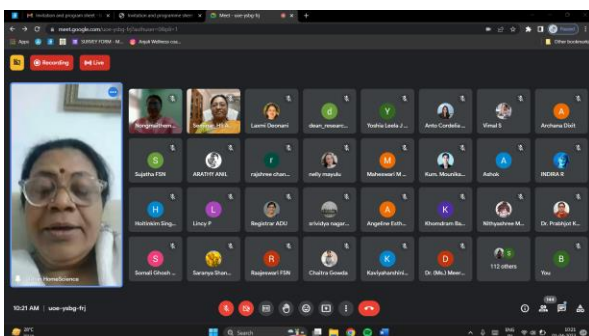
Prayer Song by Sairakshaa. S,
II M.Sc. Dept of FSN



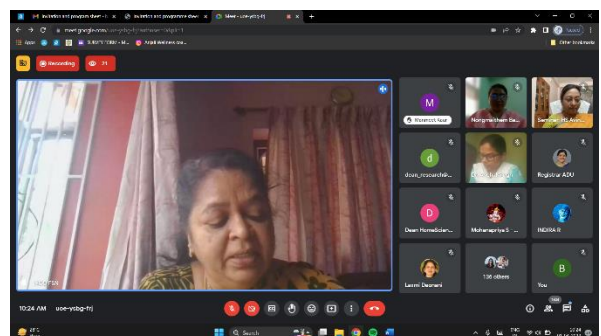
Welcome Address by Dr. C. A. Kalpana,
Professor and Deputy Dean, Dept of FSN



Inaugural address by Dr. S. Kowsalya,
Registrar and Professor, Dept of FSN



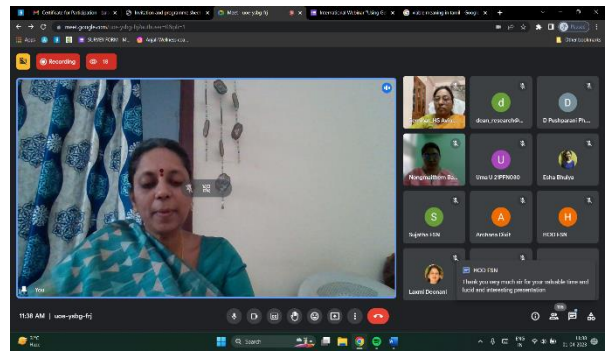
Felicitations by Dr. N. Vasugi,
Dean, School of Home Science



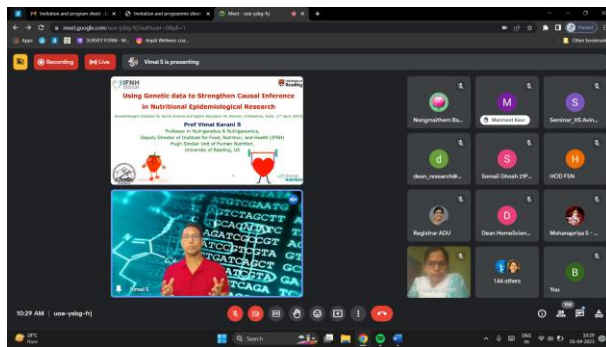
Greetings by Dr. M. Sylvia Subapriya,
Professor and Head, Dept of FSN



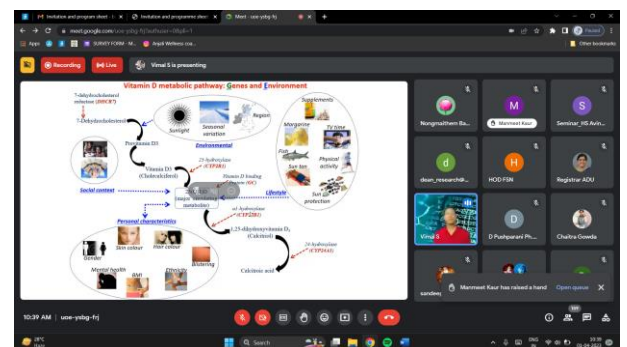
Chief Guest Introduction by Ms. Somali Gosh, Ph.D. Scholar, Dept of FSN

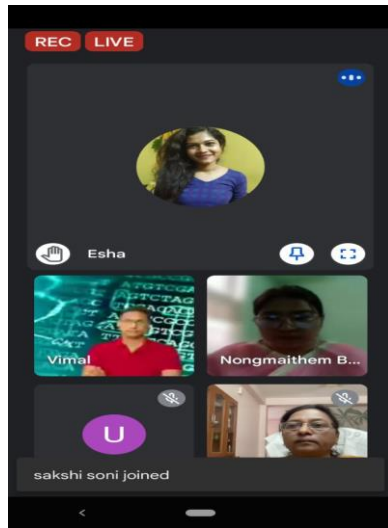
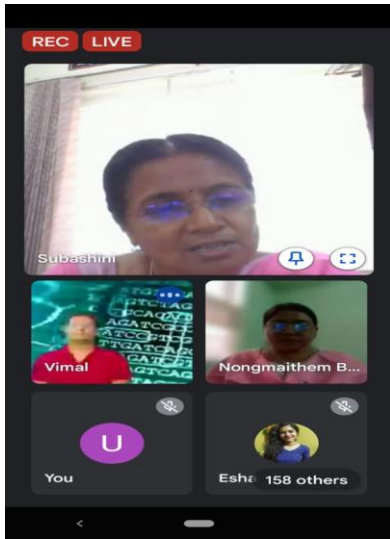


Vote of thanks by Dr. R. Balasasirekha, Assistant Professor (SS), Dept of FSN



Key Note Speaker Prof. Vimal Karani, S, Dept. of Nutrigenetics and Nutrigenomics, Deputy Director of the Institute of Food, Nutrition and Health, University of Reading, United Kingdom.





Active Participants