

Conference Proceedings



National Assessment and Accreditation Council

An Autonomous Institution of the University Grants Commission

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NAAC sponsored a two-day conference

On

**BEST PRACTICES OF RESEARCH & INNOVATION IN STEAM HIGHER EDUCATION
– A STEP FORWARD TO GLORIFY SUSTAINABLE DEVELOPMENT GOALS THROUGH
INDIAN KNOWLEDGE SYSTEM**

Organized by



Internal Quality Assurance Cell

Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women (Autonomous), Chrompet,

Chennai 600044

<https://www.sdnbvc.edu.in/>

9th and 10th March 2023

A brief report on the inauguration of NAAC sponsored two-day conference organized by
Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women (Autonomous), Chrompet, Chennai

**Theme of the Conference: BEST PRACTICES OF RESEARCH & INNOVATION IN STEAM
HIGHER EDUCATION – A STEP FORWARD TO GLORIFY SUSTAINABLE
DEVELOPMENT GOALS THROUGH INDIAN KNOWLEDGE SYSTEM**



SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR
WOMEN (AUTONOMOUS), CHROMPET, CHENNAI 600 044.
AFFILIATED TO UNIVERSITY OF MADRAS - RE-ACCREDITED WITH 'A+' GRADE BY NAAC

Internal Quality Assurance Cell (IQAC)
organises
NAAC Sponsored
A TWO-DAY NATIONAL CONFERENCE
on
**BEST PRACTICES OF RESEARCH & INNOVATION IN STEAM
HIGHER EDUCATION - A STEP FORWARD TO GLORIFY
SUSTAINABLE DEVELOPMENT GOALS THROUGH INDIAN
KNOWLEDGE SYSTEM**
Inauguration
by
CHIEF GUEST
DR. M. S. SHYAMASUNDAR
Adviser, NAAC

09th & 10th March 2023
09:00 am - 04:00 pm

GB Seminar Hall: I

SMT.MAMTA D. BHATT
CHAIRMAN

SHRI.CHANDRAKANTH M.TOLIA
SECRETARY

SHRI.NIMISH C.TOLIA
JOINT SECRETARY

DR.R.GEETHA
PRINCIPAL

Internal Quality Assurance Cell (IQAC) of Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women (Autonomous), Chrompet, Chennai organized NAAC sponsored two day National Conference on 'Best Practices of Research & Innovation in STEAM Higher Education – A Step

Forward to Glorify Sustainable Development Goals Through Indian Knowledge System' on 9th and 10th March 2023. The Conference was inaugurated by the Chief Guest Dr.M.S.Shyamasundar, Adviser,

R. Geetha
Principal
SHRIMATHI DEVKUNVAR NANALAL BHATT
VAISHNAV COLLEGE FOR WOMEN
AUTONOMOUS, CHROMPET, CHENNAI - 44.

National Assessment and Accreditation Council Bengaluru, India at 9.00 am at the college campus. The Principal of the College, Dr.R.Geetha welcomed the chief guest and expressed her happiness to him for accepting her invitation for being a part of the conference despite his busy schedule. The chief guest in his inaugural speech highlighted the importance of identifying best practices in higher education which should ensure the understanding of Identification, Implementation, Institutionalization, Internalization, Dissemination, and Transformative Higher Education for AtmaNirbar Bharat. The multifaceted guest enumerated the role of technology in higher education and shared the information about the growth of FDI in India. He eulogized India's growth model and sanguine about the possibility of tapping the resource of the largest and the youngest population of India through digital transformation. He explained the importance of NEP and the four verticals that are essential in higher education - National HE Regulatory Council (NHRC), Meta - Accrediting Body - NAC - Accreditation, HE Grants Council (HEGC) - Funding and General Education Council (GEC) - Academic Standard Setting. Dr.M.S.Shyamasundarji envisioned the role of autonomous college in increasing the GER to 50% by 2030 and ensured that artificial intelligence would make learners to enhance their knowledge and understanding in purposeful ways. Multidisciplinary Education and Research University (MERU) NEP recognizes the contribution of Ancient Multidisciplinary Universities like Takshashila, Nalanda, Vallabhi and Vikramshila. The chief guest narrated the winning story of Israel and how it has emerged as one of the powerful countries in the world despite its limited and restricted resources. The Chief Guest mentioned that India is a place of startups and unicorns as the government of India encourages young minds to contribute to the growth of Digital Culture and Entrepreneurial culture in terms of developing their appropriate skills.

He reiterated that every transformative and independent young woman should be an AtmaNirbar woman to change the society. Shri.Shyamasundarji shared the best practices of NAAC and proudly stated that all the best practices are published on the NAAC website as well as all the educational institutions in India share their best practices on their respective institutional website for others to adopt and collaborate to have Indian Growth mindset. He elaborated on the concept of Green Audit and how NAAC is awarded a Green Platinum Rating Certification by IGBC. He further shared that how NAAC was instrumental in bringing out many initiatives with societal impacts, few initiatives are - more & tress to reduction of CO₂ emission, reduction in Electricity bill due to solar panels, light sensor, water sensors, rain water harvesting and solid waste zero discharge, kutria for meetings and plastic free campuses. The chief guest concluded his vibrant speech by advising young minds to embrace a role of

Vishwa Guru by building a self-reliant India through higher education. Chief Guest concluded his inaugural speech by wishing the audience to be AtmaNirbar human being for making the country a better place to live in. The participants were from multidisciplinary background and they were zealous to learn many new ideas and skills from the chief guest. The chief guest discussed the title by dividing it into three segments –STEAM, Sustainability and SDG- and by elucidating the importance of research and innovation among the 21st century learners. The Inaugural speech was highly informative and benefited the audience in various ways.

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SPEAKERS

 PROF. ANNA DURAI Founder, Research Centre for Asiatic Culture, Kanchipuram	 DR. T. N. SHANMUGAM Founder Director, Center for Intellectual Property Rights & Founder Dean, University College of Engineering Kanchipuram, Anna University	 DR. S. SRIDEVI Principal, CTTE College for Women, Chennai	
 MR. R. VIGNESWARAN Consultant, Cybersecurity and Privacy Research & Innovation Group, TCS, India	 MR. VISWANATHAN RADHAKRISHNAN Head, Social Initiatives, Landmark Group, India	 SHRI. AP. MUTHU Consultant to Chairman Indian Ports Association	 DR. HEMA HARI Founder, Bharath Gyan

09th & 10th March 2023
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SMT. MAMTA D. BHATT CHAIRMAN	SHRI. CHANDRAKANTH M. TOLIA SECRETARY	SHRI. NIMISH C. TOLIA JOINT SECRETARY	DR. R. GEETHA PRINCIPAL
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The next session was handled by Dr. T.N. Shanmugam, Founder Director, Center for Intellectual Property Rights & Founder Dean, University College of Engineering Kanchipuram, Anna University. He delivered his talk on The STEAM of an IPR, i.e. Intellectual Property Rights. He highlighted the importance of setting objectives and goal towards a research and the registration of property rights. His talk emphasized on how and what could a research or an invention could be registered for the rights of

the creator. He inspired the young minds for getting into entrepreneurship and the prominence in getting IPR for their novel findings and products.

The third session of day one started by Prof. Annadurai Founder, Research Centre for Asiatic Culture, Kanchipuram and delivered a talk on Distortions Created by Colonial Rule in the Cultural Lineage of India. He briefly talked about the identification of 'Deep fake' happenings which are the primary distortion in our society. This distortion was established in our mother land by the colonial rule which had given a major setback for our Indian Knowledge System to go obsolete. The current generation is taken over by the 'New East India Company' i.e. the growing craze of social media which exploits our society. Our ideas and Knowledge system is gaining its attention on a minor level but yet it is termed to evolve out of 'Eastern Mind'

The fourth session of the day was handled by Dr. S. Sridevi, Principal, CTTE College for Women, Chennai and had a discussion on The Role of Colleges in the Context of CBCS & Ranking Systems and the Expected Role of New Education Policy 2020. She delved into the merits and demerits of Choice Based Credit System and the purpose of CBCS in making students to attain the rubric growth of knowledge. This American System has not been proved with its efficiency in India and has to make necessary changes to inculcate knowledge gaining than preference towards recording the attendance percentage of the students. She highlighted the advantages of NEP- New Education Policy 2020, which can provide the ultimate useful learning experience for students in future.

Day - 2 (10.03.2023)

Day – 2 Conference Session was started by Mr.R.Vigneswaran, Consultant, Cybersecurity and Privacy Research & Innovation Group, TCS, India. He presented his lecture on R&D in Block Chain Technology. The speaker introduced the topic in a simple manner through which all discipline-specific learners could understand the importance of block chain in research and innovation at large.

The following session was taken by Mr.Viswanathan Radhakrishnan, Head, Social Initiatives, Landmark Group, India. He presented an interactive online session on the topic Role of Research in Daily Life - Understanding Design Thinking. He made the students realize the potential of solving problem in everyday life which can differ from one another. According to him Design Thinking is a human centric way of creative problem solving method. By asking lots of WHYs, the demands and

needs of the person can be analysed. He said 'Great questions can lead to Great Design' in problem solving.

The third session of the second day of the conference was by Shri. Ap. Muthu, Consultant to Chairman, Indian Ports Association. He gave an extensive talk on Valuable Skills for a Self Sustainable Future across Disciplines. He remarked about the importance of gaining a degree which should be useful in all the aspects and not just for the sake of accounting the educational qualification. Gaining or imparting knowledge is to safeguard and equip oneself. He is strictly against the rote learning system which could never make a student ready to face his/her daily needs of life. His "Learning by Doing" is the need of the hour for the young minds to make themselves potential in all the disciplines in order to live a self sustainable life.

The last session was taken by Dr. D.K. HemaHari, Founder, Bharath Gyan. Her talk on Cultural Heritage and Sustainability in India was an eye-opener to understand the richness of Indian heritage and the role of substantiality in Indian Knowledge System. She demystified the concept of Westerner's do-all and orientalist's accept-all. The power of reasoning and problem solving is embedded in our culture and heritage of many more years ago.

The speakers from various disciplines addressed the audience and imparted insightful thoughts on various topics like IPR, Indian Knowledge System, Heritage and Culture, Sustainability, R&D in Block Chain Technology and Design Thinking. Participants from various educational institutions presented research papers on the conference focal themes and five of them have been adjudged as best paper presenters. Dr.P.Beena, IQAC Coordinator proposed Vote of Thanks and she thanked NAAC, the Chief Guest Shri.M.S.Shyamasundar, Principal Dr.R.Geetha, Joint Secretary Shri.Nimish C.Tolia.College management and all others who helped and aided in making this conference a successful one. Totally 22 paper presenters presented papers on the conference focal themes, out of which Five best oral paper presentation awards were adjudged by the evaluators. More than 250 participants participated including 15 from other states and 10 from other districts of Tamil Nadu

ORGANIZING COMMITTEE

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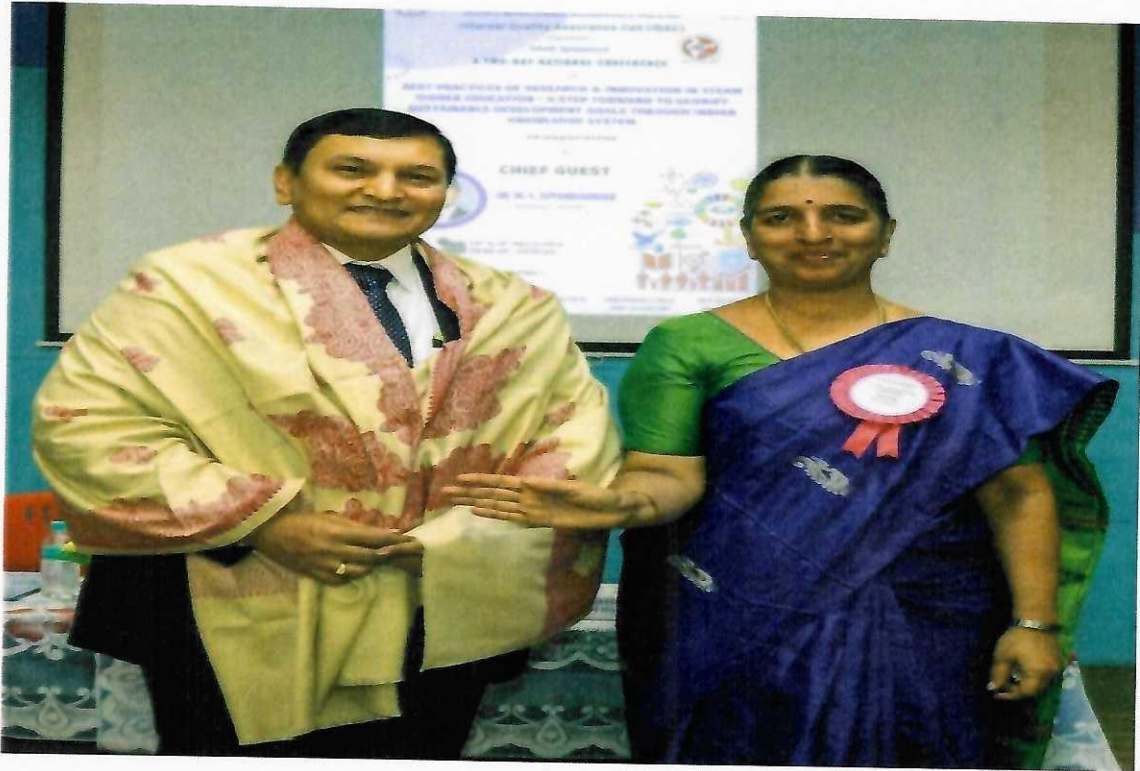
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R. Geetha

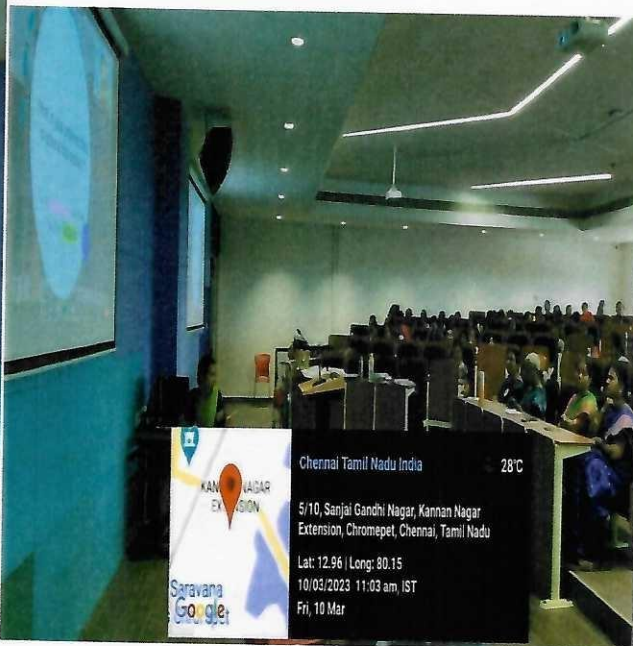
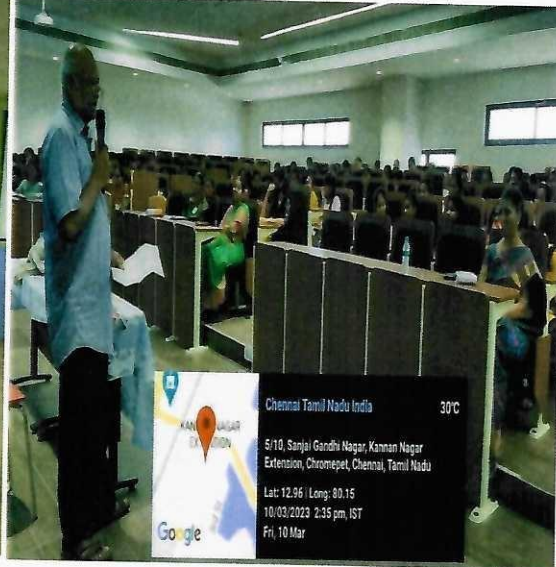
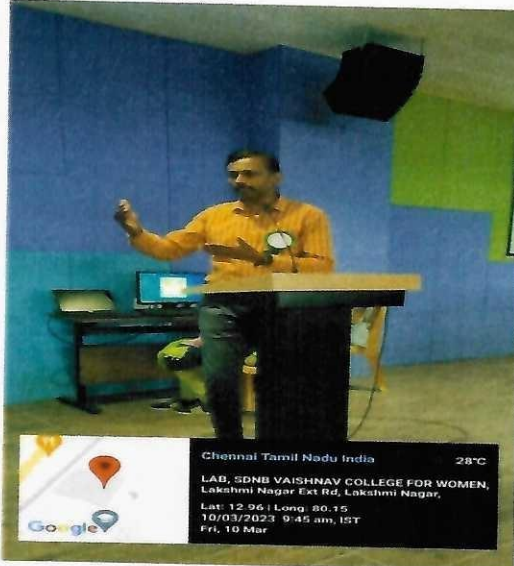
Principal
SHRIMATHI DEVKUNVAR NANALAL BHATT
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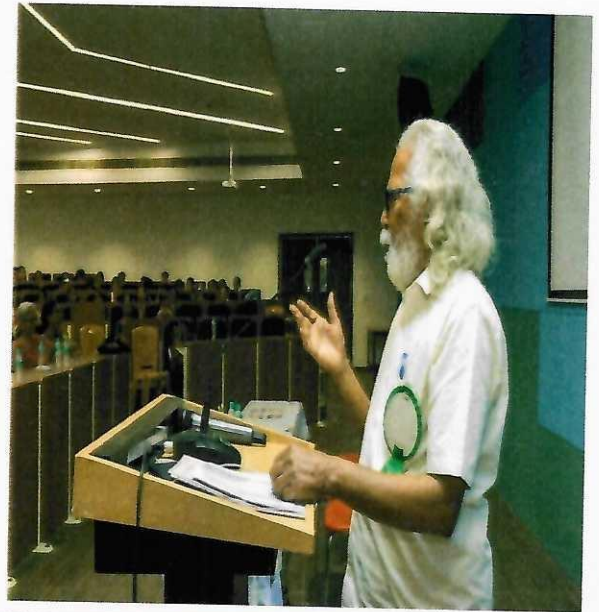
Photo Gallery



Our College Principal Dr.R.Geetha with the Chief Guest Dr.M.S.Shyamasundar, Advisor, NAAC

Resource Persons during their sessions.







Conference Team with the Chief Guest at the Two-day conference Inauguration



Evaluators during paper presentation session (online and offline sessions)- Dr.C.P.Sumathi, Dean, Life Sciences and Dr. R.Radha, Dean, Research

Participants sharing their feedback during feedback session



R. Heath

Principal
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