



**National Seminar  
On**

**ROLE OF INTERNET OF THINGS (IoT) IN  
PROMOTING SUSTAINABLE ECONOMIC GROWTH  
IN INDIA 2047**

**21 & 22 December, 2022**

**Sponsored By  
Indian Council of Social Science Research (ICSSR)  
New Delhi**

**Organised By  
Post Graduate and Research Department of Economics**

**Sri G.V.G. Visalakshi College For Women  
(Autonomous)  
Affiliated to Bharathiar University  
Accredited at A + Grade by NAAC (Fourth Cycle)  
An ISO 9001: 2015 Certified Institution  
Udumalpet – 642128  
Tirupur District, Tamil Nadu**

**Day I - 21.12.2022**

09:00 A.M	Registration
09:30 A.M	Lighting the Lamp and Prayer
09:40 A.M	<b>Welcome Address</b> <b>Dr. M. Radha</b> <i>Head &amp; Associate Professor Department of Economics Sri G.V.G. Visalakshi College For Women Udumalpet</i>
09:50 A.M	<b>Presidential Address</b> <b>Dr. N. Rajeswari</b> <i>Principal Sri G.V.G. Visalakshi College For Women Udumalpet</i>
	<b>Inaugural &amp; Keynote address</b> <b>Dr. N. S. Syed Ismail</b> <i>Director, SIFA (Agri&amp; T&amp;E) NABARD Consultancy Services Mumbai</i>
10:00 A.M - 11:00 A.M	<b>Vote of Thanks</b> <b>Dr.G.Yamuna</b> <i>Associate Professor Department of Economics Sri G.V.G. Visalakshi College For Women Udumalpet</i>
11:00 A.M - 11:15 A.M	Tea Break
11:15 A.M - 01:00 P.M	<b>Technical Session - I</b> <b>Role of Internet of Things (IoT) in Promoting Primary Sector</b> <b>Dr.N.Mani</b> <i>Head &amp; Associate Professor Department of Economics Evans Arts &amp; Science College Erode</i>
01:00 P.M - 01:45 P.M	Lunch Break
01:45 P.M - 02:45 P.M	<b>Technical Session - II</b> <b>Contribution of Internet of Things (IoT) in Secondary Sector and IPR</b> <b>Dr.A.Annadural</b> <i>Associate Professor Department of Economics Madras Christian College Chennai</i>
02:45 P.M - 03:00 P.M	Tea Break
03:00 P.M - 04:30 P.M	<b>Technical Session - III</b> <b>Importance of Internet of Things in Tertiary Sector</b> <b>Dr.S.Karthikeyan</b> <i>Associate Professor Department of Economics and Centre for Research in Economics The Madras College (Autonomous) Madurai</i>

**Day II - 22.12.2022**

10:00 A.M - 10:45 A.M	<b>Technical Session - IV</b> <b>Resource Person</b> <b>Dr.C.Paramasivan</b> <i>Assistant Professor of Commerce Paiyur E.V.R College Tiruchirappalli</i>
10:45 A.M - 11:00 A.M	Tea Break
11:00 A.M - 12:00 P.M	<b>Technical Session - V</b> <b>Resource Person</b> <b>Dr.S.Boopathi</b> <i>Professor &amp; Head Department of Economics Bharathiar University Coimbatore</i>
12:00 P.M - 01:00 P.M	<b>Technical Session - VI</b> <b>Resource Person</b> <b>Dr.Kappa Kondal</b> <i>Assistant Professor University Post Graduate College Department of Economics Osmania University Hyderabad</i>
01:00 P.M - 01:45 P.M	<b>Lunch Break</b> <b>Paper Presentation by the Participants</b> <b>Dr.K.Pushpavalli</b> <i>Head &amp; Associate Professor Department of Economics Sri Sarada College for Women (Autonomous) Salem</i>
01:45 P.M - 03:45 P.M	<b>Rapporteurs</b> <b>Dr.Nirmala Sathish</b> <i>Assistant Professor Department of Economics Nallurthala Gounder Mahalingam College Palayamkottai</i> <b>Dr.J.Geehanani</b> <i>Associate Professor of Economics Sri.S.Ramasamy Naidu Memorial College Viduthalagar</i>
03:45 P.M - 04:00 P.M	Tea Break
04:00 P.M - 05:00 P.M	<b>Valedictory Session</b> <b>Welcome Address</b> <b>Dr.P.Geetha</b> <i>Associate Professor Department of Economics Sri G.V.G. Visalakshi College For Women Udumalpet</i>
05:00 P.M - 05:00 P.M	<b>Valedictory Address</b> <b>Dr.P.Rajchandran</b> <i>Head &amp; Associate Professor of Economics G.V.N Arts College Dindigul</i>
	<b>Vote of Thanks</b> <b>Dr.M.Mehar Banu</b> <i>Organising Secretary Assistant Professor Department of Economics Sri G.V.G. Visalakshi College For Women Udumalpet</i>

### About the College

Sri G.V.G Visalakshi College for Women (Autonomous) affiliated to Bharathiar University was established in 1952. The college located near the NH209 opens up in the magnificent stone edifice which combines the historical strength and modern marvels. The rich heritage is carried forward under the leadership of the Managing Trustee Smt. Sumathi Krishnaprasad. The college gained its autonomy in the year 1995. The meticulous planning, diligent effort to sustain quality and the impeccable execution has brought the crowning glory A+ grade in the fourth cycle of NAAC reaccreditation in 2019. The college offers quality education with rich blend of traditional and modern courses to cater to the global needs. The institution is NIRF ranked and funded under DBT Star College Scheme.

### About the Department

The Department of Economics was established in the year 1956 and was upgraded as Post Graduate department in 1986 and as a Research department in 2003. All the faculty members of the department are the recognized guides of the M.Phil. and Ph.D. Programmes. Faculty of the department takes up minor and major projects funded by UGC, ICSSR and Malcolm Elizabeth Adishesiah Trust, Chennai.

### About the Seminar

The Internet of Things (IoT) is a logical progression of the internet and has numerous positive effects, such as stimulating international economies, enhancing public services, and cutting waste. The IoT has the potential to revolutionise agriculture by increasing productivity and creating a positive feedback loop that benefits everyone involved: consumers have easier access to food, farmers save money and time, and the environment benefits from the increased emphasis on sustainability. India has been making strides in the area of automation and is actively working to combine it with other industries. India can't make any real progress on the international scene until it empowers its rural population. Connecting rural India to the IoT is a sure fire method to bring the benefits of a digital economy to the vast majority of the country, and it bridges the gap between urban and rural India. Untapped areas can benefit greatly from increased connectivity, particularly in the realms of manufacturing and e-commerce for the promotion of regional and heritage goods. As a result, IoT is crucial to every person on Earth. In light of the foregoing, the present seminar has been planned to emphasize goals like;

- Role of Internet of Things in India's Economic Growth.
- Role of Internet of Things in various sectors.
- Challenges in implementing IoT in India.
- Futuristic Internet of Things for Sustainable Development in India 2047

### Venue: Conference Hall I

Sri G.V.G. Visalakshi College For Women  
(Autonomous)  
Udumalpet – 642128  
Tirupur District, Tamil Nadu

### Organising Committee

Chief Patron	Smt. Sumathi Krishnaprasad Secretary & Trustee
Patron	Dr.N.Rajeswari Principal
Advisor	Dr.M.Radha Head & Associate Professor Department of Economics
Organising Secretary	Dr.M.Mehar Banu Assistant Professor
Organising Committee Members	Dr.P.Geetha Associate Professor
	Dr.G.Yamuna Associate Professor
	Dr.K.Kaliammal Associate Professor
	Dr.R.Rajini Associate Professor
	Dr.S.Sridhya Assistant Professor
	Dr.D.Manimathi Assistant Professor
	Mrs.C.Sridhya Assistant Professor

### Contact Details

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Dr. D. Manimathi : +91 9788006660  
email id: gvjcsreca22@gmail.com

### Abstract and Full Paper Submission Guidelines

#### Format of the Article

Type of font : Times New Roman  
Font size : 12  
Line space : 1.5  
Abstract : < 250 words  
Keywords : Maximum 5  
It should contain author's name, designation, name of the college, contact number and email id.

#### Important Dates

Last date of abstract submission 10.12.2022  
Last date of full paper submission 15.12.2022  
Seminar date 21.12.2022 - 22.12.2022

Contributors are requested to submit abstract and full paper on the above themes and also other relevant themes to  
gvjcsreca22@gmail.com

#### Publication

The abstract will be published in the seminar proceeding and the selected papers will be published in edited book with ISBN after review by the experts/reviewers.

#### Registration Fee

Faculty Members Rs. 500/-  
Research Scholars Rs. 300/-  
UG/PG Students Rs. 250/-

Note : Registration fee does not include publication fee. All the authors should register.

#### Payment details

Bank Name CANARA BANK  
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Dr.N.Rajeswari  
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SRI G.V.G. VISALAKSHI COLLEGE FOR WOMEN  
UDUMALPET

#### Travel and Accommodation

No TA & DA will be provided.  
Accommodation will be provided for outstation participants on sharing basis.

#### Registration Link

<https://forms.gle/bwAEFRPQWQ1JmMq7>



After sending the paper, please join in Whatsapp for updates  
<https://chat.whatsapp.com/GwCpgRtl5IK21ClvGk9Al>

### Themes and Subthemes

I

#### Role of Internet of Things in promoting primary sector

- IoT in Smart Farming
- IoT in Marketing of Agri- Products
- IoT in Agro-based Industries

II

#### Contribution of Internet of Things in secondary sector and IPR

- IoT in Production
- IoT in Packaging
- IoT in Marketing & Sales

III

#### Importance of Internet of Things in Tertiary sector

- IoT in Education
- IoT in Banking Sector
- IoT in Transport, Tourism and Culture
- IoT in Healthcare and Sports
- IoT in Infrastructural Development
  - IoT in Smart Cities Development
  - IoT in Rural Development
  - IoT in Water Management
- IoT for Eco-friendly Environment

IV

#### Role of Internet of Things in India's Economic Growth

- IoT in GDP
- IoT in International Trade
- IoT in Human Resource Management

V

#### Challenges in implementing IoT in India

- Fiscal challenges
- Technological challenges
- Infrastructural challenges
- Legal challenges

VI

#### Future-oriented Internet of Things for India's sustainable development in 2047

- Primary sector
- Secondary sector
- Tertiary sector

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Indian Council of Social Science Research  
 Azadi Ka Amrit Mahotsav

**POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS**  
*Organises*

**ICSSR Sponsored Two Days National Seminar on**  
 Role of Internet of Things (IoT) in Promoting Sustainable Economic Growth in India 2047

DATE: 21<sup>st</sup> & 22<sup>nd</sup> December 2022  
*All are Cordially Invited*  
 Venue: Conference Hall 1

www.gvgvc.ac.in Ph.04252-223019, Fax: 04252-233111 E-mail:principal@gvgvc.ac.in

**SRI G.V.G. VISALAKSHI COLLEGE FOR WOMEN**  
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Indian Council of Social Science Research  
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DATE: 21<sup>st</sup> & 22<sup>nd</sup> December 2022  
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 Venue: Conference Hall 1

## Resource Person's Profile

Google Drive Link:

[https://drive.google.com/file/d/12QU8HKZ28S4laSoyA0D4G8\\_5zzMOAb2e/view?usp=drive\\_resource](https://drive.google.com/file/d/12QU8HKZ28S4laSoyA0D4G8_5zzMOAb2e/view?usp=drive_resource)  
[esdkresourcepersoncvicssr \(1\).zip](#)

## SEMINAR REPORT

An ICSSR sponsored Two Days National Seminar on “Role of Internet of things (IoT) in Promoting Sustainable Economic Growth in India 2047” was organized by the Department of Economics, Sri GVG Visalakshi College for Women on 21<sup>st</sup> & 22<sup>nd</sup> December 2022. Internet of things (IoT) is the natural evolution of the internet and has many benefits including boosting global economics, improving public utilization and increasing efficiencies enhancing efficiency in primary, secondary and tertiary sectors to promote sustainable development in India 2047.

### **Objectives of the Seminar:**

- ✓ Role of Internet of Things in India’s Economic Growth.
- ✓ Role of Internet of Things in various sectors.
- ✓ Challenges in implementing Internet of Things in India.
- ✓ Futuristic Internet of Things for Sustainable Development in India 2047

The registration began at 9.00 a.m. Dr. M. Radha, Head and Associate Professor, Department of Economics, Sri GVG Visalakshi College for Women, Udumalpet welcomed the Chief Guest and the gathering.



In his keynote address, Dr. N.S. Syed Ismail explained the importance of IoT in agriculture and rural development, recent development in agriculture i.e., climate change and security, smart agriculture, IoT applications, trends, automation in irrigation, controlled environment agriculture and current challenges in agriculture. The challenges in agriculture - High disparity of income

between agricultural and other ventures, wastage of food in storage as well as from farm to fork, import of vegetable oil, mono culture practices produce fewer nutritional crops, usage of more water, chemicals and fertilizers. and the like. Agriculture induces a heavy impact on the environment.



The Souvenir of the National Seminar was released by the Chief Guest and received by Mrs. S. Kalaiselvi, Principal in-charge.



In Technical Session I, Dr. N. Mani, Associate Professor & Head, Department of Economics, Erode Arts College, Erode explained the need for IoT in environment conservation, benefits of IoT, advantages in application of IoT, IoT and environmental conservation, common

IoT devices and equipment used in primary sector. Application of IoT in India like Infosys, Tata consultancy Sky met, and ISRO are in a partnership to develop sensors, The need for data provision and creation smart technology for rich ecosystem in agriculture was also given focus. Smart Farming 4AP developed by AP government in partnership with Melinda Gates foundation. Central govt. has invested significantly in digital information systems for agriculture – e-NAM and I-Kisan.



In Technical Session II, Dr. A. Annadurai explained the role of IoT in secondary sector, the contributions of IoT, its effects on manufacturing, cost reduction, inventory management, reducing machine downtime. Benefits of IoT in manufacturing include waste reduction, energy efficiency, etc. How Data based strategic industry, textile industry, food manufacturing industry, construction industry, and pharmaceuticals industry, chemical industry, energy industry, steel industry, aerospace benefitted was explained by the speaker. He also explained the drawbacks IoT.



Dr.Karthikeyan pointed out why IoT?, History of IoT, the working of IoT, importance of IoT in Education, Medicare system, e-governance, banking, e-commerce transports, and telecom

sectors. IoT in smart objects, future career, scope of IoT in India, He also highlighted the top 10 strategic IoT technologies & Trends,- Artificial Intelligence (AI), Social, Legal and Ethical IoT , Infonomics and Data Broking, The Shift from Intelligent Edge to Intelligent Mesh, IoT Governance , Sensor Innovation, Silicon Chip Innovation, New Wireless Networking Technologies for IoT, consumer and enterprise IoT applications, Technology roadmap of IoT.



Dr. C. Paramasivan delivered his ideas on “Role of IoT in Economic Growth with respect to Financial Sector”. He explained the top IoT trends in India 2020, the benefits of IoT for business,

IoT technology for business, In his talk he explained, the developments of IoT in Financial sector, Applications of IoT in banking and IPI Tech Services.



Dr. Kappa Kondal deliberated on the future-oriented IoT for India's Sustainable Development in 2047. In his lecture, the growth of IoT, IoT in agricultural sector in soil testing, water control and moisture, wind, weather, sowing of seeds, fertilizers and pesticides used and harvesting were explained. IoT in allied sectors, IoT in manufacturing sector, IoT in service sector, IoT in health care, IoT in Retail sector and Baking were also discussed.



The Challenges in implementing IoT in India was explained by Dr. P.Ravichandran. In the afternoon session, the rapporteurs Dr.K.Pushpavalli, Associate Professor and Head, Department of



Economics, Sri Sarada College for Women, Salem. Dr. Nirrmala Satheesh, Assistant Professor of Economics, NGM College, Pollachi and Dr. J. Geethamani, Assistant Professor of Economics, Sri Ramasamy Naidu Memorial College, Viruthunagar analysed and consolidated the 52 papers presented by the participants from various institutions.



The valedictory session was addressed by Dr.P.Ravichandran, Associate Professor and Head, Department of Economics, GTN Arts College, Dindigul. The rapporteurs compiled and presented the two days activities of the seminar. The vote of thanks was delivered by Dr.M.Mehar Banu Assistant Professor, Department of Economics, Organising Secretary. The seminar ended with National Anthem. The students and the faculty numbering 235 from Department of Economics, Computer Science, BBA (CA), B.Sc. IT, BCA, B.Com, faculty and Ph.D scholars from our institution and various institutions participated and benefitted from this seminar.

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## Glimpses of the Seminar

[ICSSR PHOTOS.docx.pdf](#)













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