







The advancement of the society in this age is only possible with mutual cooperation, collaboration, extending help to each section of the society and sharing of resources. The efficiency of achieving the SDGs become more while working in collaboration than an individual. This is true whether it is applicable for a person or an organization or a country. Wastage of resources must be zero and at the same time abundant resources must be generously shared with those not having access. This mutual cooperation is the fundamental principle of sustainability with involvement and participation of all. UN SDG17 aims to revitalize the global partnership for sustainable development. In line with UN SDG principle DIT University firmly believes in collaboration be it in research or resource sharing or implementation of its work culture not only inclusive but exclusive of University premises. The supportive and flexible work culture of DIT University essentially lies on the proposition of trust-integrity, employee engagement-opportunities, respect-fairness.



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# International Collaborative research and Conference on Sustainability

DIT University believes in collaborative research and development for the coexistence in society with larger objectives of societal growth and contributions for welfare of everyone. DIT University has arranged several multi-disciplinary international conferences that targeted implementation of SDG principles with collaborative academic and industrial efforts.



## Name of the International Conference/Workshop

## Interdisciplinary International Seminar on

'Trends and Future Possibilities in Humanities and Social Sciences', March 25-26, 2022

### **Related SDGs:**

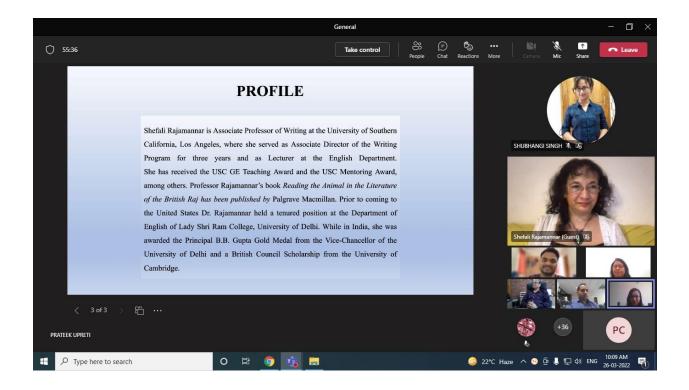
**SDG 3:** Good Health and Well-being, **SDG 5:** Gender Equality, **SDG 6:** Clean Water and Sanitation, **SDG 7:** Affordable and Clean Energy, **SDG 8:** Decent Work and Economic Growth

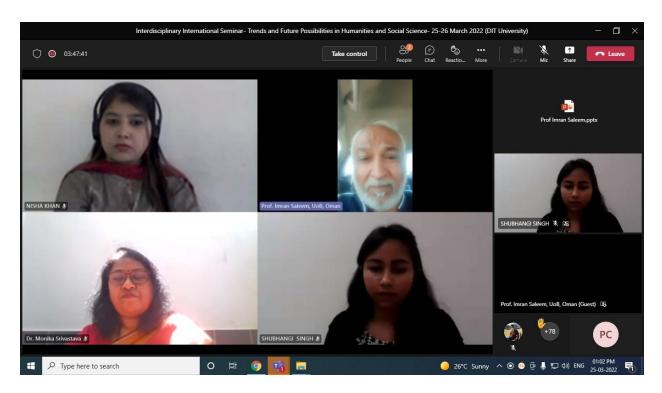
The Objective of the Seminar aimed to bring bright minds from across the globe together on a single platform to share their views on related interdisciplinary approaches and have a rich and contended dialogue. The best minds from the academia in the field of Humanities, Management and Social Sciences devoted their time discussing a variety of topics on **Gender Studies, Disability Studies, Human Capital Development, Environmental Studies, Business and Economics, and Health Humanities.** Apart from exploring the field's origin, the eminent speakers also broadened the participants' understanding of the field's current growth, their contemporary significance and the future directions. The workshop deliberated in detail the strategies to implement SDG principles in developing countries and the ways to tackle the challenges associated.

### International Speakers:

Prof. Imran Saleem, Pro Vice-Chancellor, University of Buraimi, Sultanate of Oman.
Dr. Shefali Rajmannar, Associate Professor, University of Southern California
Prof. Bhupendra Kumar, Professor, Debre Tabor University, Ethiopia.









#### Name of the International Conference/Workshop

2nd International Conference on Applied Mathematics and Computational Sciences-2022, October 12th–14th, 2022, (Virtual Mode)

#### **Related SDGs:**

**SDG 3:** Good Health and Well-being, **SDG 6:** Clean Water and Sanitation, **SDG 7:** Affordable and Clean Energy, **SDG 13:** Climate Action

The Conference aimed to provide a global platform for research scholars, academicians, scientists, and industry people engaged in different fields of mathematics and computer science around the world, where the participants can interact and express their thoughts, challenges, recent developments and innovative ideas of this rapidly growing field and can share their knowledge. The theme of the conference was **Applied Mathematics and Computational Sciences** which is one such recent highly popular and well - known interdisciplinary field. The two subjects have applications in every field of science, engineering, technology, and industry, but combining them yield new powerful techniques. Eminent Speakers focused on applications of the two subjects on **biological-physical-mathematical & biomedical sciences, earth-atmosphere environmental sciences, and so on.** 

### International Speakers:

Prof. O. D. Makinde , Stellenbosch University, South Africa
Prof. D. Baleanu, Cankaya University, Ankara, Turkey
Prof. Md. Shafiqul Islam, University of Dhaka, Bangladesh
Prof. Ali Akgul, Siirt University, Yeni, Turkey



### Name of the International Conference/Workshop

Anant-Interdisciplinary International Conference on 'Trends and Future Possibilities in Humanities and Social Sciences-2022' 10–11 November, 2022, (Hybrid Mode)

### **Related SDGs:**

**SDG 3:** Good Health and Well-being, **SDG 5:** Gender Equality, **SDG 6:** Clean Water and Sanitation, **SDG 7:** Affordable and Clean Energy, **SDG 8:** Decent Work and Economic Growth

'Anant'- International Interdisciplinary Conference on Trends and Future Possibilities in Humanities and Social Sciences from 10-11 November, 2022 was an attempt by the School of Liberal Arts & Management, DIT University Dehradun to understand and explore the recent trends in Humanities & Social Sciences and to provide a platform to the scholars across globe for sharing their knowledge. The focus areas were: Disability Studies, Health Humanities/Health Economics,Positive Psychology/ Yoga/ Mindfulness/Well Being, Human-animal Studies/Environment Studies/Climate, Youth, Gender, Identity, Class & Race Studies, Women Studies (Empowerment/entrepreneurship/social & political participation)

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- Prof Kindye Essa- Dean Faculty of Business & Economics, Debre Tabor University Ethiopia.
- Prof Imran Saleem- University of Buraimi Oman.



**Annexure- Conference Booklet** 

# CONFERENCE BOOKLET

2<sup>nd</sup> International Conference on Applied Mathematics and Computational Sciences-2022



**October 12**<sup>th</sup>-14<sup>th</sup>, 2022

(Virtual Mode)

Organized By Department of Mathematics School of Physical Sciences



DIT UNIVERSITY, DEHRADUN-248009, UTTARAKAHAND, INDIA

WWW.DITUNIVERSITY.EDU.IN



# Overview

Mathematics is all around in the nature and it is an integral part of everyday live, with applications ranging from investing money, predicting costs, and comprehending computers to building mathematical models of complicated problems and solving them using computational tools. Many new tools and approaches have been developed over time to solve a wide range of real-world problems that were previously difficult to solve analytically. Applied Mathematics and Computational Sciences is one such recent highly popular and well - known interdisciplinary field. The two subjects have applications in every field of science, engineering, technology, and industry, but combining them yield new powerful techniques. These techniques can solve problems in a variety of fields, such as finance, computing, insurance, industries, medical, research and development, public service, aircraft, auto-mobiles, textiles, communication systems, biological-physical-mathematical & biomedical sciences, earth-atmosphere-environmental sciences, and so on. This multidisciplinary field has expanded opportunities not only in humanities and creative arts, but in social sciences, archaeology, architecture, music, and the visual arts also .

In a nutshell, applied mathematics and computational sciences play a critical role in a wide range of interrelated areas and hence a review of the various aspects of the field, recent advancements, and achievements is the need of hour.

The purpose of this International Conference is to provide:

- a global platform for research scholars, academicians, scientists, and industry people engaged in different fields of mathematics and computer science around the world, where the participants can interact and express their thoughts, challenges, recent developments and innovative ideas of this rapidly growing field and can share their knowledge.
- a stage where experts will share their research findings allowing participants to gain a comprehensive understanding of this interdisciplinary subject through various sessions of the conference, which will assist, guide, and motivate them, particularly young research scholars, to pave their path in this field.
- an exposure to participants of different regions and foster interactions among them to facilitate their growth in the chosen research field.
- an interactive forum which may lead to an opportunity for new collaborations.

The conference will feature keynote address, a number of plenary talks, invited lectures, contributory lectures and poster presentations.

# **Conference** Theme

ICAMCS-2022 is a specialized conference on mathematics and its real world applications in various branches of science.

#### Track 01

- Mathematical Modelling - Stability of Flows, Fluid Mechanics

- Partial Differential Equations

- Dynamical Systems

- Difference Equations

- Graph Theory

Theory

- Algorithm Design and Analysis

- Neural Networks, Genetic Algorithms, Game

- Mathematical Biology
- Theory of Differential Equations

#### Track 02

- Numerical Solution ODEs, Numerical Solution PDEs (inc. BVPs)
  Stochastic Differential Equation
  gral Equations
  Approximation Theory & its applications
- Numerical Linear Algebra, Numerical Inte-

#### Track 03

- Computational Physics Environmental Science & its applications
- Computational Mechanics
- Computational Chemistry Problems emerging from Nanotechnology

#### Track 04

- Machine Learning with Mathematical Ap Data Structures, Data Science
   proach
   Optimizations
- Cryptography & Network Security
- Image Processing with mathematical Tools
- Decomposition and Reconstruction Algorithms, Subdivision Algorithms
- Big Data Analytics
- Computational Intelligence (Fuzzy Systems, Evolutionary Computing)
   Applied Discrete Mathematics

**\*\*** Peer-reviewed articles will be published in special issue journal (SCOPUS/WOS) with AIP Publishing.

3

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- Dr. Natasha Awasthi
- Dr. Ankita Khanna

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- Ms. Shruti Tomar
- Ms. Soniya Gupta

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<ul> <li>Prof. Junesang Choi</li> <li>Prof. Martin Bohner</li> <li>Prof. Aydin Secer</li> <li>Prof. Juan J. Nieto</li> </ul>	Dongguk University, Republic of Korea Missouri University of S & T, USA Yildiz Technical University, Turkey University of Santiago de Compostela, Spain
<ul> <li>Prof. Junesang Choi</li> <li>Prof. Martin Bohner</li> <li>Prof. Aydin Secer</li> <li>Prof. Juan J. Nieto</li> <li>Prof. Valentina Emilia Balas</li> </ul>	Dongguk University, Republic of Korea Missouri University of S & T, USA Yildiz Technical University, Turkey University of Santiago de Compostela, Spain Aurel Vlaicu University of Arad, Romania

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### Keynote Speaker(s)

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# ABOUT DIT UNIVERSITY

DIT was established in 1998 as Dehradun Institute of Technology by Unison Group, which later was given the status of autonomous body in 2012 by UGC. Further, in 2013 it was conferred the status of University under act no. 10 of 2013 by Uttarakhand State Government and recognized by UGC under section 2(F) of UGC act 1956, due to its excellence in Education and Research. The University offers various programs at undergraduate and postgraduate level which includes Engineering, Pharmacy, Architecture, Management, Science and Humanity & Liberal Arts Courses.



# ABOUT MATHEMATICS DEPARTMENT

Department of Mathematics was established since the inception of Dehradun Institute of Technology in 1998 and was given an independent status in 2013 as Department of Mathematics. The Department provides an outstanding research environment complemented by excellent teaching which facilitates the students to flourish in different areas of academics and industry. The department, equipped with highly qualified faculty, offers academic programs leading to the award of Ph. D. degree.

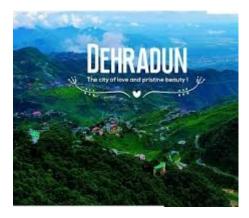
The thrust areas in which faculty members working are:

Special Functions, Numerical Analysis, Algebra, Coding Theory, Thermal Instability in Incompressible Fluids, Fuzzy Logics & applications, Optimization, Fluid Dynamics, Tensor Analysis, Cosmology and Differential Geometry.

## ABOUT THE CITY DEHRADUN

Nestled in the Doon Valley in the foothills of the great Himalayas and flanked by two very beautiful as well as mighty rivers the Ganges and the Yamuna on its eastern and western side, Dehradun is one of the most ancient cities of India. Dehradun, the capital of Uttarakhand, got its name by the union of two words 'Dera' and 'Dun' that means Camp in the Valley.

Dehradun is a trendy hilly tourist destination with its impeccable beauty and charismatic sceneries. Along with tourist spots, famous scientific museum and lush green sprawling parks, Dehradun is adorned with several famous



historic buildings that have great architectural value, and a number of temples that have spell binding beauty and at the same time are considered to be very auspicious.

The weather in Dehradun in the month of October remains pleasant with temperature varying between  $17^{0}C$  to  $29^{0}C$ . The city also receives a good amount of snowfalls during winters which is a major attraction of tourist.

# **Key Dates**

- Registration & Abstract/Paper submission opens:	$20^{th}~{\rm May}$ , 2022
- Deadline for Registration & Abstract/Paper submission:	$30^{th}$ August , 2022
- Notification of acceptance:	$20^{th}$ September , 2022
- Conference Dates:	October $12^{th}$ - $14^{th}$ , 2022

# **Registration Fee**

- Research Scholar:	<b>₹</b> 700/-	- International Students:	\$ 50
- Faculty & Industry persons:	<b>₹</b> 1000/-	- International Faculty:	\$ 75
- Article Publication Charges*:	₹5,500/-	- Article Publication Charges*	: \$ 250

# **Conference Website**

https://www.dituniversity.edu.in/icamcs2022

# **Bank Details**

<b>Registration Link</b> :	https://bit.ly/ICAMCS2022		
Last date for registration:	$30^{th}$ August, 2022.		
The registration fee may be sent through bank transfer. The bank details are as follows:-			
Name of the Bank :	Punjab National Bank		
Account No. :	15262413000051		
IFSC Code :	PUNB0152610		
MICR Code :	248022016		
SWIFT Code :	PUNBINBBDPR		
Name of the Account : DIT UNIVERSITY GRANT $A/C$			

### CONTACT US

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## CONFERENCE BOOKLET

Anant-Interdisciplinary International Conference on Trends and Future Possibilities in Humanities and Social Sciences-2022

**10–11 November, 2022** 

(Hybrid Mode)

Organized by School of Liberal Arts and Management



DIT University,

Dehradun–248009, www.dituniversity.edu.in Uttarakhand,

India

## **About International Conference 'ANANT'**

'Anant'- International Interdisciplinary Conference on Trends and Future Possibilities in Humanities and Social Sciences from 10-11 November, 2022 is an attempt by the School of Liberal Arts & Management, DIT University Dehradun to understand and explore the recent trends in Humanities & Social Sciences and to provide a platform to the scholars across globe for sharing their knowledge.

## **Aim of the International Conference**

After the first phase of International Seminar that was focused on enhancing the knowledge of the participants, the second phase International conference on 10-11 November, 2022 aims to provide the opportunity to present the research work on a dynamic platform of scholars across globe. The conference will engage in scholarly discussions, deliberations and a wide-ranging survey of emerging trends and contemporary perspectives in Humanities and Social Sciences with a focus on the following broad areas of research:

- Digital Humanities, Films, Visual Culture
- Disability Studies
- Health Humanities/Health Economics
- Positive Psychology/ Yoga/ Mindfulness/Well Being
- Human-animal Studies/Environment Studies/Climate •
- Violence, Trauma & Memory •
- Youth, Gender, Identity, Class & Race Studies •
- **Graphic Narratives** •
- Cultural Studies

- New Media (Digital Media, Social Media, Cyber) and Popular Culture
- Women Studies (Empowerment/entrepreneurship/social & political participation) •
- Emerging Issues in Industrialization/ Science Technology and Society. •

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Conference Chair	Conference Co-Chair(s)
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- Prof Imran Saleem- University of Buraimi Oman.

## **ABOUT DIT UNIVERSITY**

DIT University is a premier Institute of Higher learning in the area of Science, Engineering and Technology, Liberal Arts & Management, Pharmacy and Architecture. Over a long and proud history, DIT has post the limits of knowledge with innovation and carved a niche in professional and technical education through emphasis on quality education with up to date curriculum and lecture delivery methods supported by strong laboratory components. DIT University is designed to provide holistic education, enabling students to stand on their own feet. The focus is always on promotion of self-learning and honing talents to ensure the all-round development amongst our students. The university created a space for itself not only in northern estates but at all India Level.

## ABOUT SCHOOL OF LIBERAL ARTS AND MANAGEMENT (HUMANITIES)

The School of Liberal Arts and Management (Humanities) plays the distinctive role of integrating human attributes and values with a holistic science and technology education. It helps to make India's bright young minds critical thinkers and ensures all round holistic development of students through teaching a variety of subjects, innovative curricula, and participation in co-curricular activities. The department offers B.A Honours, M.A and Phd. programmes in the field of English, Economics and Psychology. The department also takes the subjects like Professional Communication, Engineering Economics, Principles of Management, Industrial Psychology, Organizational Behavior, Human Values and Ethics for Science and Engineering students.

### **ABOUT THE CITY DEHRADUN**

Nestled in the Doon Valley in the foothills of the great Himalayas and flanked by two very beautiful as well as mighty rivers the Ganges and the Yamuna on its eastern and western side, Dehradun is one of the most ancient cities of India. Dehradun, the capital of Uttarakhand, got its name by the union of two words 'Dera' and 'Dun' that means Camp in the Valley. Dehradun is a trendy hilly tourist destination with its impeccable beauty and charismatic sceneries. Along with tourist spots, famous scientific museum and lush green sprawling parks, Dehradun is adorned with several famous historic buildings that have great architectural value, and a number of temples that have spell binding beauty and at the same time are considered to be very auspicious. The weather in Dehradun in the month of October remains pleasant with temperature varying between 170C to 290C. The city also receives a good amount of snowfalls during winters, which is a major attraction of tourist.

### How to Reach Dehradun

### By Air

Dehradun's airport is the Jolly Grant Airport, which is located 20 km away from the city centre. Air India, Jet Airways, Jet connect and Spice Jet have regular flights to Dehradun. You can hire a taxi from the airport to reach the city, which should take you 40 to 45 minutes depending upon traffic. By Bus

Dehradun is well connected to most cities such as Delhi, Shimla, Haridwar, Rishikesh, Agra and Rajasthan by Volvo, Deluxe, semi-deluxe and Uttarakhand State Transport buses. These buses arrive and depart from the Dehradun Inter State Bus Terminal (ISBT). Buses depart from here every 15 minutes to one hour. By Train

Dehradun is connected by regular train services to cities Delhi, Lucknow, Allahabad, Mumbai, Kolkata, Ujjain, Chennai and Varanasi. The Dehradun Railway Station is located 1-2 kilometers away from the city centre and you can reach the city within ten minutes, depending on traffic. Dehradun is connected to the rest of the country by trains such as the Shatabdi Express, Jan Shatabdi Express, Dehradun AC Express, Doon Express, Bandra Express and the Amritsar-Dehradun Express among others. Road/Self Drive

A popular tourist destination, Dehradun has a strong road network, which makes for a pleasant driving experience. Dehradun is well connected by road to cities like Delhi by the NH 58 and 72 is approximately a 4-hour drive. Chandigarh is located at a distance of 167 kilometers and is almost a 3 hours' drive. Dehradun is also well connected to cities like Haridwar and Rishikesh.

## **Submission guidelines**

Submit your abstract @ <u>Conference.humanities@dituniversity.edu.in</u> The authors of selected abstracts will be notified with further registration process. **Key Dates** Last Date for submission of Abstract/Full paper-20 September 2022 Acceptance Notification of Abstract/Full paper – 20 October 2022

Last Date of Registration- 30 October 2022

Registration Link: https://forms.office.com/r/98Yw0JPAY7

## **Registration Fee:**

	Online	Offline	
Students (Indian & SAARC	600/- INR	1200/- INR	
Countries)			
Faculty (Indian & SAARC	1200/- INR	2400/- INR	
Countries)			
<b>Students (International)</b>	50 \$	75 \$	
Faculty (International)	75 \$	100 \$	

Certificate of participation/presentation will be provided to the registered participants after the conference.

The registration fee includes- Entry to all Sessions, Conference Kit, Tea and Lunch (for offline Participants) and accommodation for International Participants.

All paper presenters/ Participants have to pre-register for the conference.

The organizers intend to publish select papers in an ISBN book from a national publisher; information regarding this will be communicated after the acceptance of the papers.

## **Bank Details**

The registration fee may be sent through bank transfer. The bank details are as follows:-

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