

A Short Report of 5th International Conference on Recent Advances in Science (ICRAS-2021) in Online Mode

Date/Day of program	April 30 and May 1, 2021 (Friday & Saturday)
Organizing Committee	Dr. Satendra Singh (Convener) Dr. Ashutosh Pradhan (Co-Convener) Dr. Sandeepan Maity (Organizing Secretary) Dr. Sanjeev Kumar Jain (Organizing Secretary)
Chief Guest	Dr. S. V. Shukla, Director Fragrance & Flavour Developmet Center Ministry Of MSME- Government Of India, Kannauj.
Keynote Speaker	Professor. S. Sundar, Department of Mathematics, Indian Institute of Technology Madras (IIT Madras) Chennai 600 036, India.
Invited Speakers	Prof. M Singh (National University of Lesotho, South Africa) Prof. K N Tiwari (Banaras Hindu University, Varanasi) Prof. Devesh kumar (Babasaheb Bhimrao Ambedkar University, Lucknow) Prof Sudhir Kumar Srivastava (D D U Gorakhpur University, Gorakhpur) Dr. Subrata Chattopadhyay (IIT Patna) Dr. Neeraj Chaubey (University of Iowa, Iowa City, USA)
No. of Participants	209
Mode of Presentation	Plenary Talk/InvitedTalk/ Oral/ Poster through Webex

ICRAS-2021 (April 30 and May 1, 2021)

In Online Mode

The ICRAS-2021 was scheduled to be commenced on 30th April, 2021. The conference was intended to cover a wide range of subthemes in distinct branches of Science, viz., Life Science, Physical Science, Chemical Science and Mathematical Science.

The conference witnessed the active participation of about more than 200 participants from different Institutes/Universities of country in addition to many internal students.

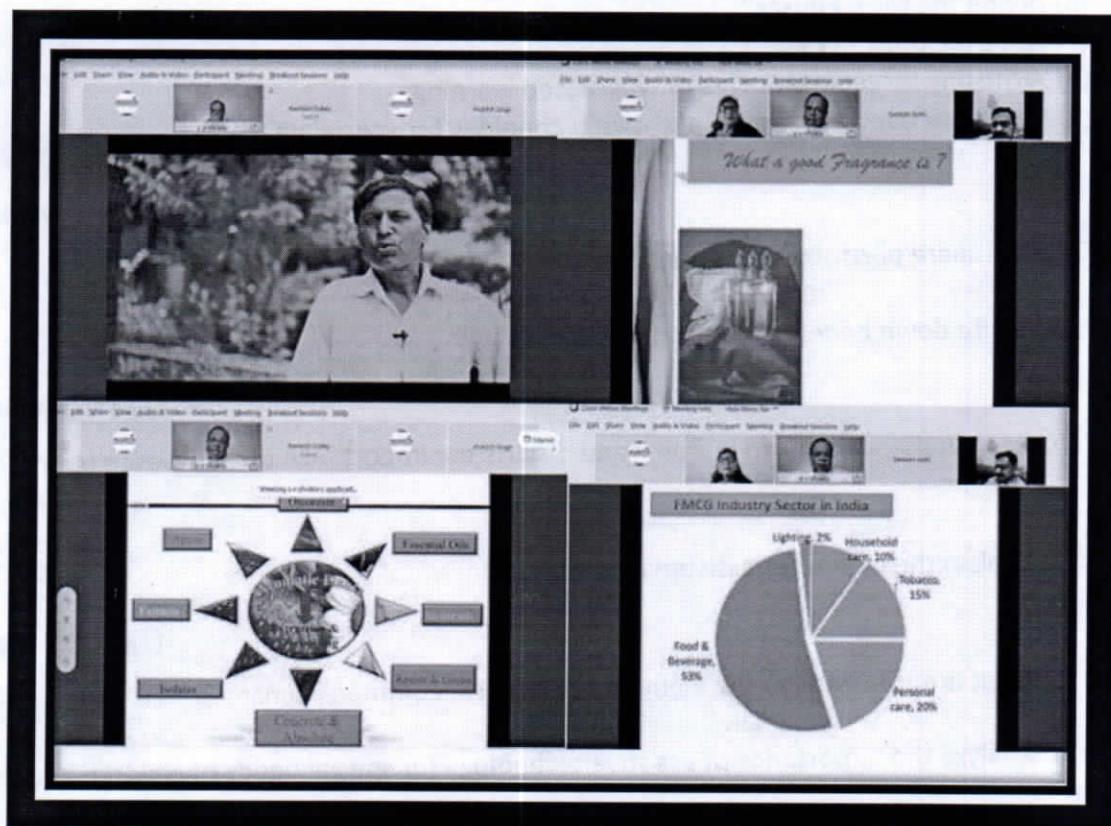
The inaugural ceremony of the conference was started from 9:30 AM on 30th April, 2021 in which the Chief Guest was Dr. S. V. Shukla, Director FFDC, Kannauj and Professor. S. Sundar, IIT

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Madras was keynote speaker. After Inaugural ceremony the talks were delivered by both the eminent personalities which were thoroughly enjoyed by and participants. In his talk Dr. Shukla explained how his institute is helping people to setup their startups and business models in the field of medicinal and natural fragrances while the key note speaker Prof. Sunder highlighted how the different mathematical models can be utilized in making strategies to save people at crowded places during any mishappenings as well as at the time of any natural disaster. The conference is then followed by technical sessions of different streams.

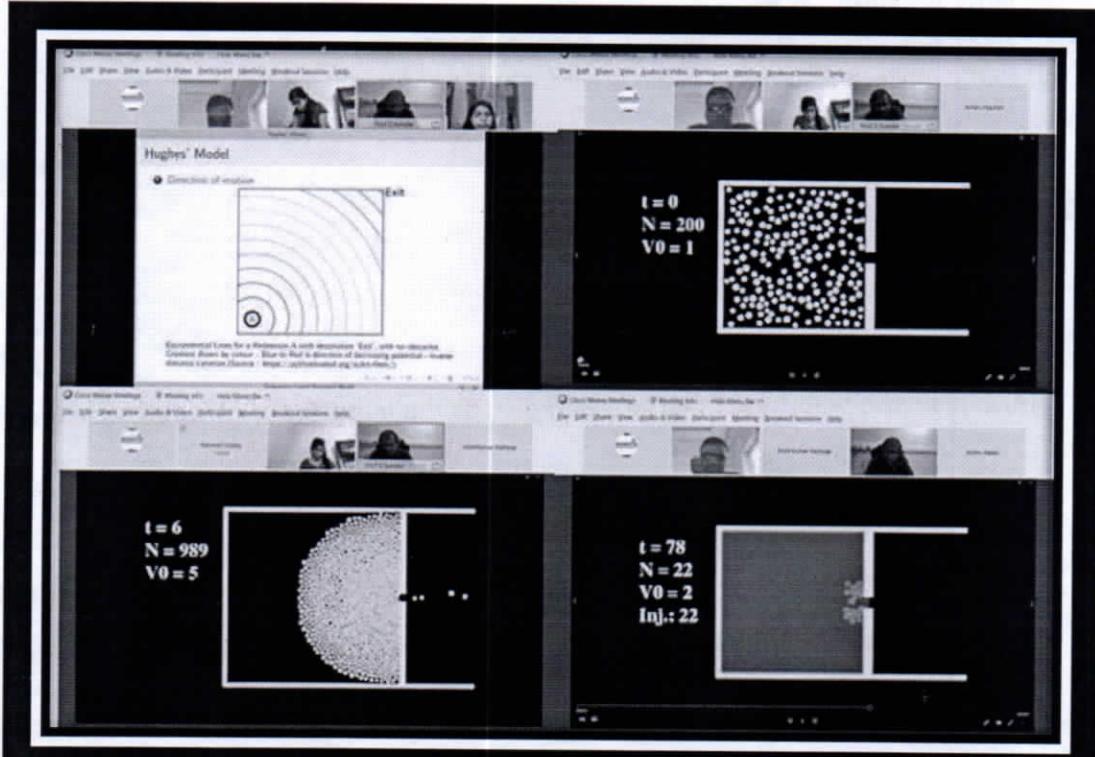
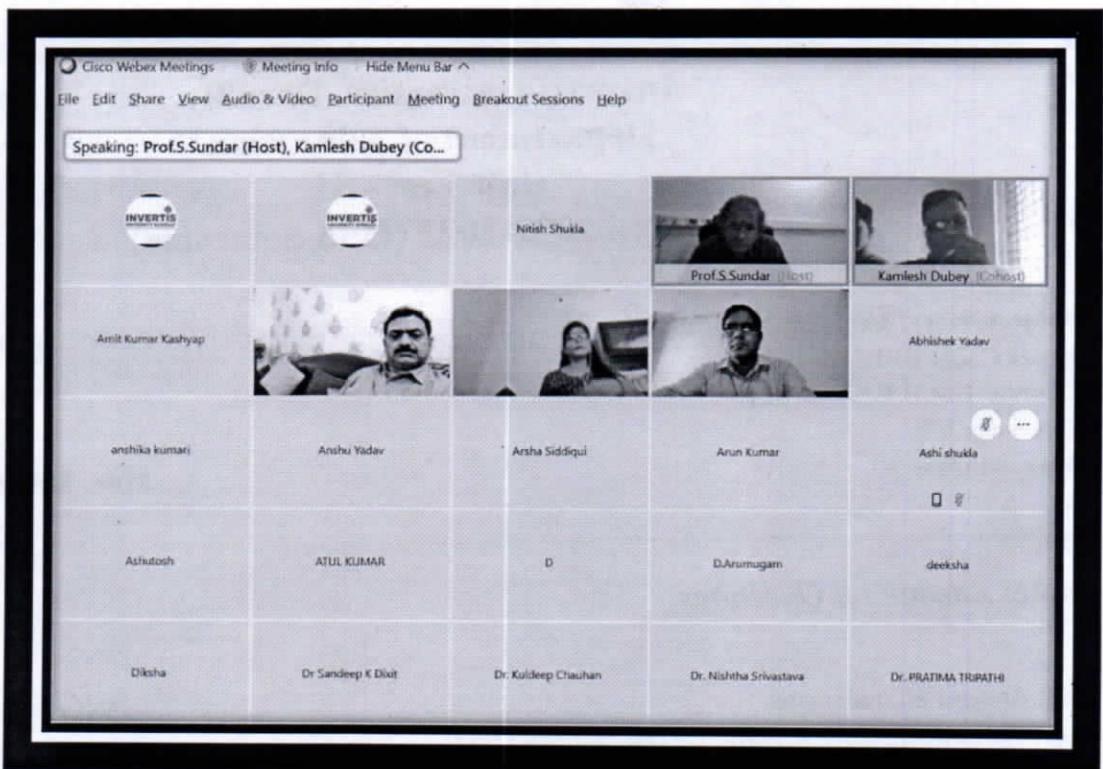
On second day of the conference, technical sessions and poster presentations on different topics of different subjects were held. The conference ended with a valedictory session i.e. compilation of all two days' activities and distribution of prizes to the deserving participants. The conference was then officially called off with vote of thanks.

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Glimpses of ICRAS-2021

1st April
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Glimpses of ICRAS-2021

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***One week online FDP on Applicability of Mathematical Sciences in
Emerging World, by Deptt of Applied Sciences & Humanities, Invertis
University, Bareilly***

The first session of second day was started at 10:00 a.m. by Prof. Bankteshwar Tiwari from Banaras Hindu University, Varanasi delivered his talk on "**Modern view point of geometry around us**". He discussed and explained various geometrical concepts as spherical geometry, hyperbolic geometry and different model of geometry. He also explained concepts of Gaussian curvature. The lecture was very informative with interactive question and answer session. The session was hosted by Dr. Ruchi Mishra.

The afternoon session on day 2 was on "**Two Body Problem and Modeling Challenges**" at 2:pm . The speaker for the session was **Prof C K Mishra, Deptt of Physics, IIT Madras**. He was awarded special breakthrough prize in Fundamental Physics in 2016 for his work.

Prof Mishra has discussed the great challenges that lay ahead the scientists in even establishing what is a gravitational wave and the existence of Black Holes predicted by Albert Einstein about a century ago.

There was a very enthusiastic response from the participants who were motivated and fascinated by the details and the presentation of the lecture. In the end Prof Mishra responded to the questions from the participants and also said that this is a rising field of research and great activity will continue in the next at least 30 years and anyone opting for this field will have great challenges and also a very great future.

The session was chaired by Dr S K Jain and the host for FDP was Prof K K Dubey both from Invertis University.

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Recording... LIVE on Facebook

Dr. K.B. Pandey

Gauss Theorema Egregium
Gaussian curvature of a surface at a point remains unchanged under isometric deformation of the surface.

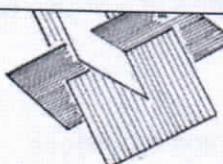
Corollary:
There is no isometric map from even part of a sphere to a plane.

Participants (174)	
Q. Find a participant	
Dr. Kamlesh Kumar (Host, me)	26 08
Bankteswar T. (Co-host)	0 08
Anil Kumar	0 08
Senu Yadav	0 08
Ruchi Mishra (Co-host)	0 08
12(A96) Mohit Sahni class 6th A...	26 08
Abhijit Bhattacharya	26 08
Abhishek Shekhar	26 08
Adil Kamal	26 08
Ajay Kumar	26 08
Akanksha Singhvi	26 08
Akhil Rai	26 08
Akshaya Pathak Pathak	26 08
Amit Singh	26 08
Amritansh Mishra	26 08
Anamika Rai	26 08

Recording... LIVE on Facebook

The Best of Mathematics - Bhawna.org

rectangles; and each is incident to 5 edges (concrete rods), while each edge has 2 vertices, so there are in all $(12 \times 5)/2 = 30$ edges. Of these, the 24 which join a vertex to one of the two nearest vertices of the next rectangle have clearly, by symmetry, the same length a . Also, the remaining 6 edges, being the shorter sides of the identical rectangles, have the same length b . In general, a is not equal to b , and only 8 of the obtained triangles are equilateral with sides $\{a, a, a\}$, the remaining 12 are only isosceles (two sides equal) with sides $\{a, a, b\}$. However, the above construction gives an icosahedron, provided the three identical rectangles have a special length-to-breadth ratio. For, if we keep b fixed, then a increases or decreases with l , the common length of the rectangles, being patently much bigger than b when the rectangles are very long, but is lesser than b when the rectangles approach 'squarehood' (the angle between the equal sides of the isosceles triangles is then almost a right angle), so there is an optimal l at which $a = b$.

Participants (172)	
Q. Find a participant	
Dr. Kamlesh Kumar (Host, me)	26 08
Bankteswar T. (Co-host)	0 08
Anil Kumar	0 08
Ruchi Mishra (Co-host)	0 08
Abhijit Bhattacharya	26 08
Abhishek Shekhar	26 08
Adil Kamal	26 08
Akanksha Singhvi	26 08
Akhil Rai	26 08
Akshaya Pathak Pathak	26 08
Amit Singh	26 08
Amritansh Mishra	26 08
Anamika Rai	26 08

has more understandings to students?

From Amit Bhattacharya to Everyone:
At first I would like to Thank you for your nice and informative lecture. My question is what should be our approach to find the volume of a polyhedron in hyperbolic or spherical space?

From Dr. Ashwin Kumar G.P. to Everyone:
Dr. Ashwin Kumar, ID: FDP/ASH/IU20/170

To: Padmee M., (Privately)
Type message here...

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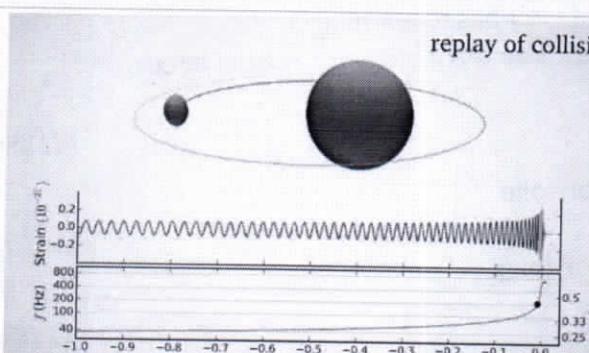
Curvature of a regular Surface at a point
 The Gaussian curvature at a point is regarded as curvature of a regular Surface at that point.



Figure: Surfaces of constant curvature

Visualization of a relatively simple binary black hole coalescence (one consistent with GW151226)

replay of collision



Nonprecessing binary with mass ratio ~3.3 and spins of ~0.5 and ~0.4 (one aligned and one antialigned); YouTube link

Participants (170)

- Sawan Kumar
- neema Jangir
- Sekhar Mithy
- Shakil Ahmed
- Shashank Upadhyay
- Shivendra Singh
- Shrawan Gupta
- Sukriti Krishna Teki
- soumi tripathi
- Srinivasu Nanagirao
- Sudha Jain
- Sushil Kumar Dubey
- Surbhi... Ask to Unmute More >
- Surya Pratap Goswami
- swagata Kundu
- seeti mehadev

Participants (144)

- mala parveen
- Surya Pratap Goswami
- Bhardi Rayal
- Gazala Praveen
- Bandana Priya
- Bherupi Patta
- Dr. V R Bhandari

Chat

From mala.parveen to Everyone:
 357 Dr.Syed Rashedeha parveen

From Gazala Praveen to Everyone:
 Dr.Gazala Praveen UI20/155

From Dr.ANAND Raisoi to Everyone:
 FDP/ASH/IU20/508

From Dr.MUKESH CHANDRA to Everyone:
 DR.MUKESH CHANDRA

To: sangita.m...@vit.ac.in
 Type message here...

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Recording... LIVE <https://meet.google.com/rof-ahpo/lnkqyv>

Matched filtering

Unknown source parameters: Template Bank

250,000 waveforms

Mass 2 [M_{\odot}]

Mass 1 [M_{\odot}]

$|x_{1,2}| < 0.05$

$|x_1| < 0.9895, |x_2| < 0.05$

$|x_{1,2}| < 0.9895$

LIGO-Virgo Collaboration, PRD 96, 122003 (2016)

18

Participants (146):

- Q.p
- Surya Pratap Goutam
- Biswali Patal
- Narayan Prakash Srivastav
- Ranjana Prhya
- Rishabh Putta
- Dr. KB Rendey
- Kartikashankar Bhattacharya

Chat

From Dr.Syeda Rasheedea parveen to Everyone: 0523 PM
357 Dr.Syeda Rasheedea parveen

From Gazala Parveen to Everyone: 0524 PM
Dr.Gazala Parveen UL20/155

From Dr.AKASH Jaiswal to Everyone: 0524 PM
FDP/ASH/UL20/508

From DR MUKESH CHANDRA to Everyone: 0524 PM
DR MUKESH CHANDRA

From Dr.Syeda Rasheedea parveen to Everyone: 0525 PM
357 Dr.Syeda Rasheedea parveen

From Dr.Gazala Parveen to Everyone: 0525 PM
Dr.Gazala Parveen UL20/155

To: [Sangeetha M V](#) (Private)

Type message here...

Sangeetha M V

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One Week Online Faculty Development Programme
on
“Applicability of Mathematical Sciences in Emerging World”

Organised By
Department of Applied Science & Humanities, Invertis University, Bareilly

In Association with



The National Academy of Sciences



International Academy of Physical Sciences



Mathematical Sciences Institute

28th July to 02nd August-2020



Patron

Dr. Umesh Gautam

Chancellor, Invertis University, Bareilly



Prof. YDS Arya
Vice-Chancellor
Invertis University, Bareilly



Prof. P.P. Singh
Dean, Faculty of Science
Invertis University, Bareilly, India



Dr. Kamlesh Kr. Dubey
Head Dept. of Applied Science & Humanities
Invertis University, Bareilly, India
Convenor



Dr. Jitesh Pati Tripathi
Department of Mathematics, R.N. College, Hajipur
B.R.A. Bihar University
Organising Secretary

Eminent Speakers



Prof. Satya Deo Tripathi
General Secretary- NASI
General Secretary- Indian Mathematical Society



Prof. P.N. Pandey
Ex. V.C. NGB University, Prayagraj
General Secretary- IAPS



Prof. T. Venkatesh
Director, Mathematical Sciences
Institute, Belgaum, Karnataka



Prof. S.k. Narasimha Murthy
Chairman, Department of P.G. SRM,
Kuvempu University, Karnataka



Prof. A. Muhammed Uludag
Galatasaray University, Istanbul, Turkey



Prof. Bankteshwar Tiwari
Institute of Science, BHU, Varanasi



Prof. Gyaneshwer Chaubey
Faculty of Sciences, BHU, Varanasi



Prof. K.K. Agarwal
Delhi University



Dr. P.D. Mishra
ISRO Bangalore



Dr. Jitendra Singh
VSK University, Bellary



Dr. A.K. Verma
IIT, Patna



Dr. Abhishek Saxena
Novosibirsk State University, Russia



Dr. C.K. Mishra
IIT Chennai

Contact: Dr. K.K. Dubey 9415267202 | Dr. J.P. Tripathi 9453477657 | **email:** ashevents@invertis.org

Note: No Registration Fee | Audience: Faculty members | E-certificate- After successful completion of the event and daily feedback form submission.

Registration link of google form: <https://forms.gle/WGH6nJKwrkS7UY186>

Campus: Invertis Village, NH-24, Lucknow-Bareilly Highway, Bareilly-243 123 (U.P.)

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One-Week Online Faculty Development Programme

"Applicability of Mathematical Sciences in Emerging World"

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Prof. Banktesh Tiwari
BHU, Varanasi

"Modern view point of
geometry around us"

Dr. C. K. Mishra
IIT Chennai

"Two body problem and
modelling challenges"

Organised By
Department of Applied Science & Humanities



Time: 10:00AM-11:00AM

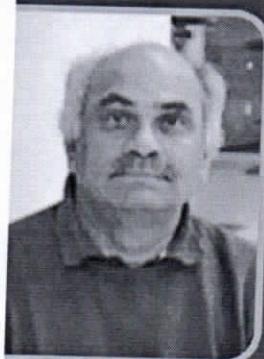
Date: 29 July, 2020

Time: 02:00PM-03:00PM

One-Week Online Faculty Development Programme

"Applicability of Mathematical Sciences in Emerging World"

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Prof. T. Venkatesh
Director, MSI, Karnataka

"What are the applications of
Mathematics? What are?"

Prof. Gyaneshwar Chaubey
BHU, Varanasi

"How mathematical modellings
are shaping the studies
on human evolution?"



Organised By
Department of Applied Science & Humanities

Time: 10:00AM-11:00AM

Date: 30 July, 2020

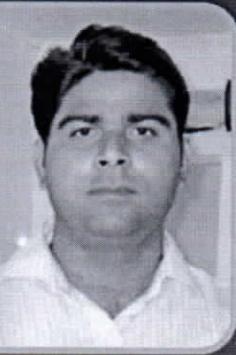
Time: 02:00PM-03:00PM

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One-Week Online Faculty Development Programme

"Applicability of Mathematical Sciences in Emerging World"

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Dr. P.D. Mishra

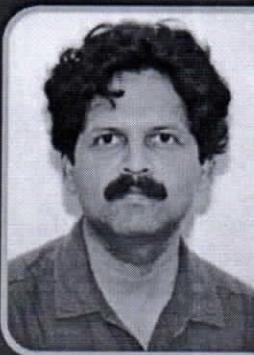
Scientist
ISRO, Bangalore

"Mathematical Sciences
Application in Space Field"

Dr. A.K. Verma

IIT
Patna

"The Mathematical modeling
using Mathematica"



Topic

Organised By

Department of Applied Science & Humanities

Time: 10:00AM-11:00AM

Date: 31 July, 2020

Time: 02:00PM-03:00PM

One-Week Online Faculty Development Programme

"Applicability of Mathematical Sciences in Emerging World"

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Dr. Jitendra Singh

VSK University, Bareilly

"Fundamentals of Magnetohydrodynamics
and Applications"



Dr. Abhishek Saxena

Novosibirsk State University, Russia

"Mathematics of Blockchain and Blockchain
Application to the future world"



Prof. K.K. Agrawal

Delhi University

"Exploratory Data Analysis"

Time: 10:00AM-11:00AM

Time: 12:05PM-01:00PM

Time: 02:00PM-03:00PM

Organised By
Department of Applied Science & Humanities

Date: 01 August, 2020

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One-Week Online Faculty Development Programme

"Applicability of Mathematical Sciences in Emerging World"

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Prof. S.K. Narishimha Murthy Prof. P.N. Pandey

Kevempu University
Karnataka

Ex-VC NGB University
Prayagraj

Topic

"Mathematical applications for
Covid-19 global pandemic"

"Mathematics Around You"

Organised By
Department of Applied Science & Humanities



Time: 10:00AM-11:00AM

Date: 02 August, 2020

Time: 02:00PM-03:00PM

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One-Week Faculty Development Programme

Certificate of Participation

This is to certify that Prof./Dr./Mr./Ms..... from
Department of
College/University.....
Reg. No. has successfully completed One-Week Online Faculty Development
Programme on "Applicability of Mathematical Sciences in Emerging World" organized by
Department of Applied Science & Humanities, Faculty of Science, Invertis University, Bareilly (U.P.)
in association with "The National Academy of Sciences", "International Academy of Physical Sciences" and
"Mathematical Sciences Institute" from 28th July to 02nd August, 2020.

Prof. P.P. Singh
Dean, Faculty of Science

Prof. S.D. Tripathi
The General Secretary-NASI

Prof. P.N. Pandey
The General Secretary-IAPS

Prof. T. Venkatesh
Director-NGI

Dr. K.K. Dubey
Convenor
Head, Department of Applied
Sciences and Humanities

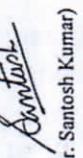
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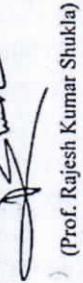
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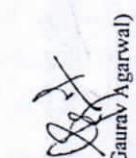
Invertis University
Department of Computer Science and
Engineering
FDP Reports
Session- 2019-20


(Mr. Santosh Kumar)

(Registrar)

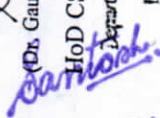

(Prof. Rajesh Kumar Shukla)

(Registrar)


(Dr. Gaurav Agarwal)

(HOD CSE)

Head
Department of Computer Science
& Engineering
Invertis University
Bareilly-243123, UP


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List of Guest Lectures Organised

DEPARTMENT NAME : Computer Science Engineering

S.no	Date of Guest Lecture	National/ International (Place)	Alumni Guest Speaker (Y/N)	CATEGORY (INDUSTRY/ ACADEMICS)	Name of the Resource person	Designation	Organisation Name	Topic	Email Id	Contact Number
1	Apr/16, 2020	National (Noida)	No	Industry	Mr. Anand Kumar	Sr. Data Analyst	Morling Global	Data Science	anandbandey04@live.com	9759253330
2	Apr 16-18, 2020	National (Noida)	No	Industry	Mr. A.K. Pathak	Scientist	NIC, India	Data Analytics		9811327766
3	Apr/22, 2020	International (United Kingdom)	No	Industry	Mr. Saurabh Agarwal	Managing Consultant	(Wipro), United Kingdom	Artificial Intelligence and Machine learning		447866981011
4	Apr/29, 2020	National (Roorkee)	No	Academics	Mr. Amit Kumar Sharma	Project Associates	IIT, Roorkee	Virtual Lab through online mode		
5	Apr/29, 2020	National (Roorkee)	No	Academics	Mr. Chetan Dhiman	Project Associates	IIT, Roorkee	Virtual Lab through online mode	chetan.dhiman.27@gmail.com	8439100005
6	May/03, 2020	National (Dehradun)	No	Industry	Mr. Gaurav Mishra	Founder and Head Coach	Online academy for personal growth and professional development	Career Success Post covid-19		
7	May/12, 2020	International (Germany)	No	Industry	Mr. Rajnish Kumar	St.Salesforce Technical Architect	HCL, Germany	Reconcile of Campus life to Corporate life	rajnishkumar21@gmail.com	491626082001
8	May/14, 2020	National (Delhi)	No	Industry	Ms. Sanya Handa	Learning and Development Consultant		Interview Skills		
9	May/16, 2020	National (Bangalore)	Yes	Industry	Mr. Samuel David	Sr. Software Engineer and Team Lead	IBM, Bangalore	A Journey of software engineer	k.samuel.david02@gmail.com	8065206201

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DEPARTMENT NAME : Computer Science Engineering

List of Guest Lectures Organised

S.no	Date of Guest Lecture	National/ International (Place)	Alumni Guest Speaker (Y/N)	CATEGORY (INDUSTRY/ ACADEMICS)	Name of the Resource person	Designation	Organisation Name	Topic	Email Id	Contact Number
10	May/21, 2020	National (Haridwar)	No	Academics	Dr. Krishan Kumar	Assistant Professor	Gurukul Kangri Vishwavidyalaya, haridwar(U.K.)	Covid-19 Impacts: Challenges and opportunity for IT Industry	krishankumar1614@gmail.com	9319777952
11	May/21, 2020	National (Hyderabad)	Yes	Industry	Mr. Shriom Tiwari	Software Engineer	Qualcomm Technology, Hyderabad	Database Functional dependency	tiwarishriom@gmail.com	
12	May/23, 2020	National (Noida)	Yes	Industry	Ms. Shweta Tiwari	Digital Marketing cum UI Designer	Good Life Technology, Noida	Scope of Digital Marketing	snazzy.shweta287@gmail.com	95688558197
13	May/23, 2020	National (Noida)	Yes	Industry	Mr. Piyush Saxena	Lead-QA	Exeo SoftwarePvt. Ltd. Noida	Where to go? (A session to help fresh guns to shoot market with precision)		9758499113
14	May/23, 2020	National (Chandigarh)	Yes	Industry	Mr. Anuj Saxena	Data Analyst	Infosys, Chandigarh	Business Intelligence: An overview and data visualization	iamanuisaxena@yahoo.com	9711179594
15	May/27, 2020	International (Saudi Arabia)	No	Industry	Mr. Kamil raza Khan	Application Support Consultant	Arab National Bank, Riyad, KSA	Oracle PL/SQL Concepts	kamilsaya@gmail.com	9711311330

Note: A small write up not more than 50 words by the resource person and his photograph must be send to CRC for social media promotion.

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2021

Report
On
**One week online Faculty Development
Prgramme**
On
Intelligent Systems
Organized by:
Department of Computer Science and Engineering
Invertis University, Bareilly

CSE

One Week Faculty Development Program
On
INTELLIGENT SYSTEMS
29TH JUNE – 4TH JULY

Patron
Dr. Umer Gultamzai
Invertis University, Bareilly

Speakers
Academics

Advisory Board

International Advisory Board

Industry

Convener

Co-Conveners

Registration Link :- <https://bit.ly/3g26HwR>
Organized by
Department of Computer Science and Engineering
Invertis University, Bareilly

Samrat

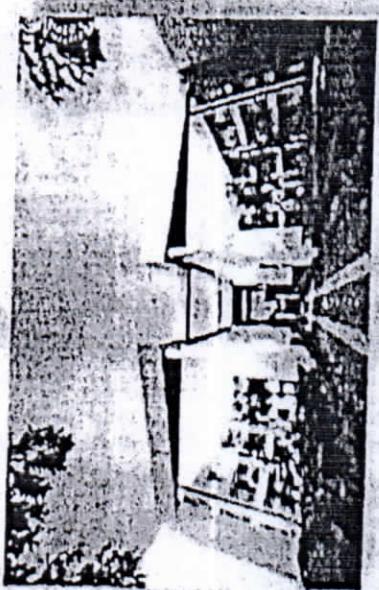
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One Week Online Faculty Development Programme

on
"INTELLIGENT SYSTEMS"

29th June - 4th July, 2020



Resource Persons:

Dr. V. K. Panchal
Former Director, DRDO Delhi

Prof. Mohammad Sarosh Umar
Professor & Chairman, Department of CSE, AMU

Mr. Anoop Ojha
Sr Software Manager, Amdocs Inc.
Dallas, Texas, USA

Prof. Manu Pratap Singh
Professor, Dr. B. R. Ambedkar University, Agra

Dr. Ajay Indian
Assistant Professor
Central University of Rajasthan, Ajmer

Dr. Sandhya Tarar
Assistant Professor
Gautam Buddha University, Noida

Dr. Divya Kumar
Assistant Professor, MNNIT, Allahabad

Dr. Mohit Kumar
Assistant Professor, NIT, Jalandhar

Prof. Brijesh K. Gupta
Ex-IITian, Director
Braanet Technologies Pvt. Ltd., Ghaziabad

Mr. Vidyut Gupta
Head of CoreTechnology India Middle East Africa
Nokia Networks

Dr. Christos Sarakasidis
Data Scientist, Cover Insurance, UK

Mr. Alok Pathak
Scientist, NIC, Delhi

Mr. Sumit Jain
Monitoring Information Engineer
Williamill (bookmaker) Ltd., West Yorkshire, UK

Patron
Dr. Umesh Gautam
Chancellor, Invertis University, Bareilly

Advisory Committee:
Prof. YDS Arya
Vice-Chancellor, Invertis University, Bareilly

Prof. R.K. Shukla
Dean Engineering, Invertis University, Bareilly

Dr. Gaurav Agarwal
HOD, Dept. of CSE, Invertis University, Bareilly

Convenor
Mr. Suhail J. Quraishi
CEO, I-Tech, Assistant Professor, Invertis Univ

Co-Convenors
Ms. Shimona Gupta
Assistant Professor, Invertis University

Mr. Ashish Saxena
Assistant Professor, Invertis University

Organizing Committee
Mr. Rahul Rastogi
Mrs. Meeta Chaudhary
Dr. Chandan Kumar
Dr. Akash Sanghi
Mr. Anil Pandey
Mrs. Sakshi Tripathi
Mr. Ankit Saxena

Registration Link:
<https://bit.ly/3g26HwR>

Last date for Registration: 28th June, 2020
Note: Certificate will be provided to those who attend the full faculty development progr

Contact No: +91-98720923 E-Mail Id: Cse.fdp20@gmail.com

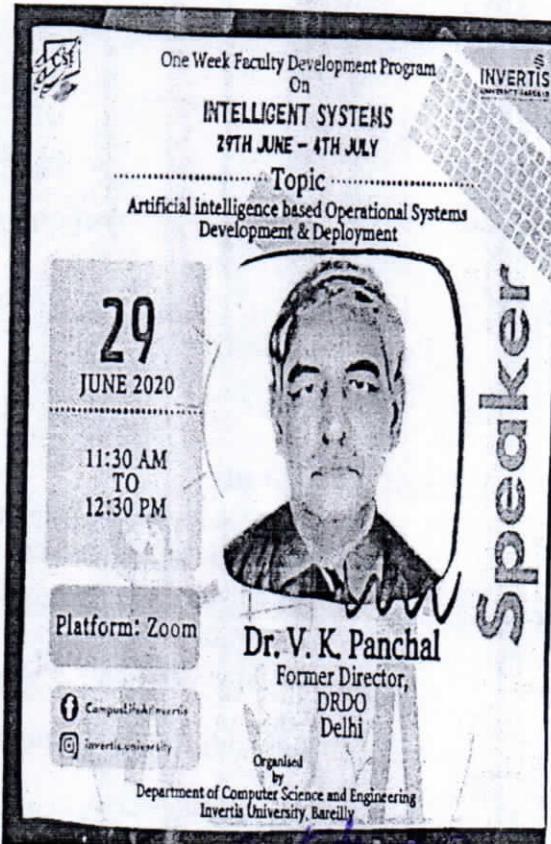
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S3D
Session number: 1
Date: 29th June 2020
Time: 11:30 AM onwards
Speaker: Dr. V.K Panchal
Organization: Former Director, DRDO Delhi
No. of participants: 163
Topic: Artificial intelligence based Operational Systems Development & Deployment

Key Points:

1. Explained how Artificial Intelligence has the ability of a digital computer to perform task commonly associated with intelligent beings.
2. How the artificial intelligence allows the machine the ability to learn, reason.
3. Discussed the concept of cognition, ambiguity, optimization, imprecision, uncertainty etc.
4. Discussed the concept of FANET's(Flying Adhoc Networks).
5. Explained about big data, sky computing, social networks and conceptual networks.



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The image shows two screenshots of a Zoom meeting. The top screenshot displays a slide titled "Computational Environments" with a timeline from 2015-16 to 2019-20. The bottom screenshot displays a slide titled "Artificial Intelligence" with a definition of AI and a list of related concepts.

Computational Environments

2015-16 → 2016-17 → 2017-18 → 2018-19 → 2019-20

M: Meeta Chauhan, Dr. VK Panchal, Suhail Javedi, Archana Saini, Sunita Dabhi, Pranjal Das, Rahul Rastogi

Flying Ad-Hoc Networks (FANETs)

- Multi-Objective Decision based on Fuzzy Dynamics Energy Generation from Traffic Art. Flood Problem of Kent River
- Enlarging China's Culture, Literature and Philosophy: Chinese Mathematics
- NASA GRACE Water Planetary Missions : Mission Mars & Moon
- New Theories: Wave-Vector-based optimization, Intelligent materials
- Anticipatory Computing : Herd-field Planning
- Big Data, Sky Computing, Social Networks, Conceptual Networks
- Nature inspired : Membrane Computing, Quantum Computing
- Swarm Intelligence : ACO, BFO, BBO, PSO, CO, FF, BCO
- Swarm Behavior, Nature Inspired Techniques
- Intelligence, Wisdom Technology, Semantic Web, Ontology
- Remote Sensing Approximate Reasoning, Vagueness, Uncertainty

Artificial Intelligence

Artificial intelligence (AI), the ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings.

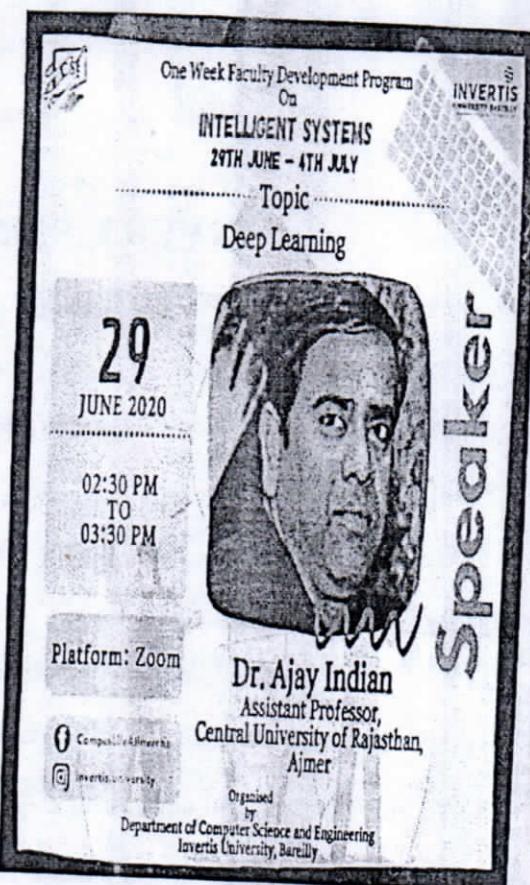
The term is frequently applied to the project of developing systems endowed with the intellectual processes characteristic of humans, such as the ability to reason, discover meaning, generalize, or learn from past experience.

Reasoning Similarity Approximation Cognition Concepts Optimization Ambiguity Uncertainty Imprecision Anticipation Partial Truth

Session number: 2
Date: 29 June 2020
Time: 2:30 PM onwards
Speaker: Dr. Ajay Indian
Organization: Assistant Professor, Central University of Rajasthan, Ajmer
No. of participants: 123
Topic: Deep Learning

Key Points:

1. Explained what is deep learning and how it is better than any other technique used for image, speech etc.
2. How the error in a network is calculated and how can it be minimized.
3. Explained about linear separability.
4. Discussed about decision boundary and how can we construct a good non-linear decision boundary.
5. Explained how feature vectors can be formed and how can we find self-organizing feature vectors.



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0	2 3 4 5 6 7 8 9

Feature Detectors

An Introduction to Deep Learning

Dr. Ajay Indian
Assistant Professor
Department of Computer Science
Central University of Rajasthan
Ajmer, Rajasthan, India

Santosh

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Scanned with CamScanner

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Session number: 3

Date: 30 June 2020

Time: 10:30 AM onwards

Speaker: Dr. Mohit Kumar

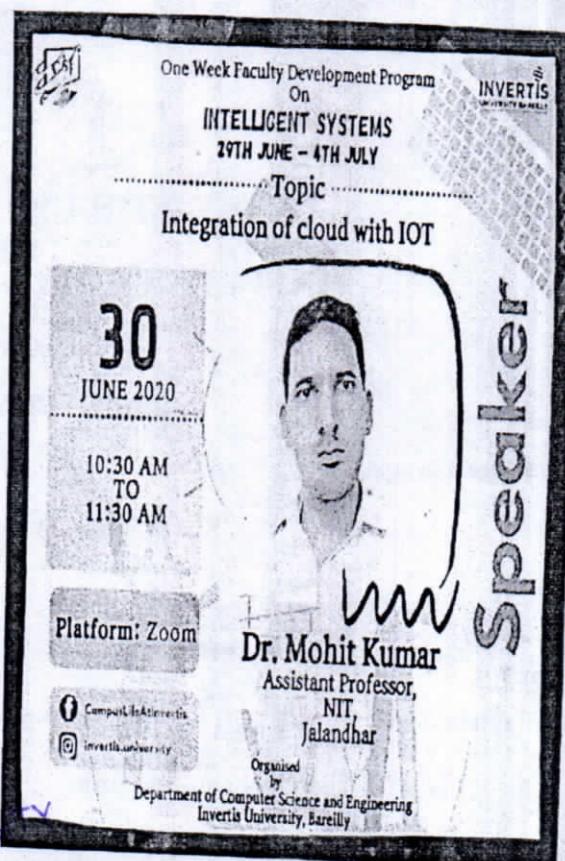
Organization: Assistant Professor, NIT Jalandhar

No. of Participants:- 142

Topic: Integration of Cloud with IoT

Key Points:

1. Discussion about Virtualization. By using Virtualization resources can be used easily. Hypervisor is used to provide Virtualization.
2. There are four types of cloud service layers- IaaS, PaaS, SaaS.
3. Discussion about Region and Availability zones.
4. There are four types of cloud deployment models- Public, Private, Hybrid, Community.
5. Amazon Web Services, Spot Instances, Scheduling Algorithms are Discussed.
6. Limitations of Cloud Services, IoT (Internet of Things) are discussed.



SARITA Joined
0 Zoom

Type 1 vs. Type 2
HYPERVISORS

Arvind Singh

shaila bhor Joined

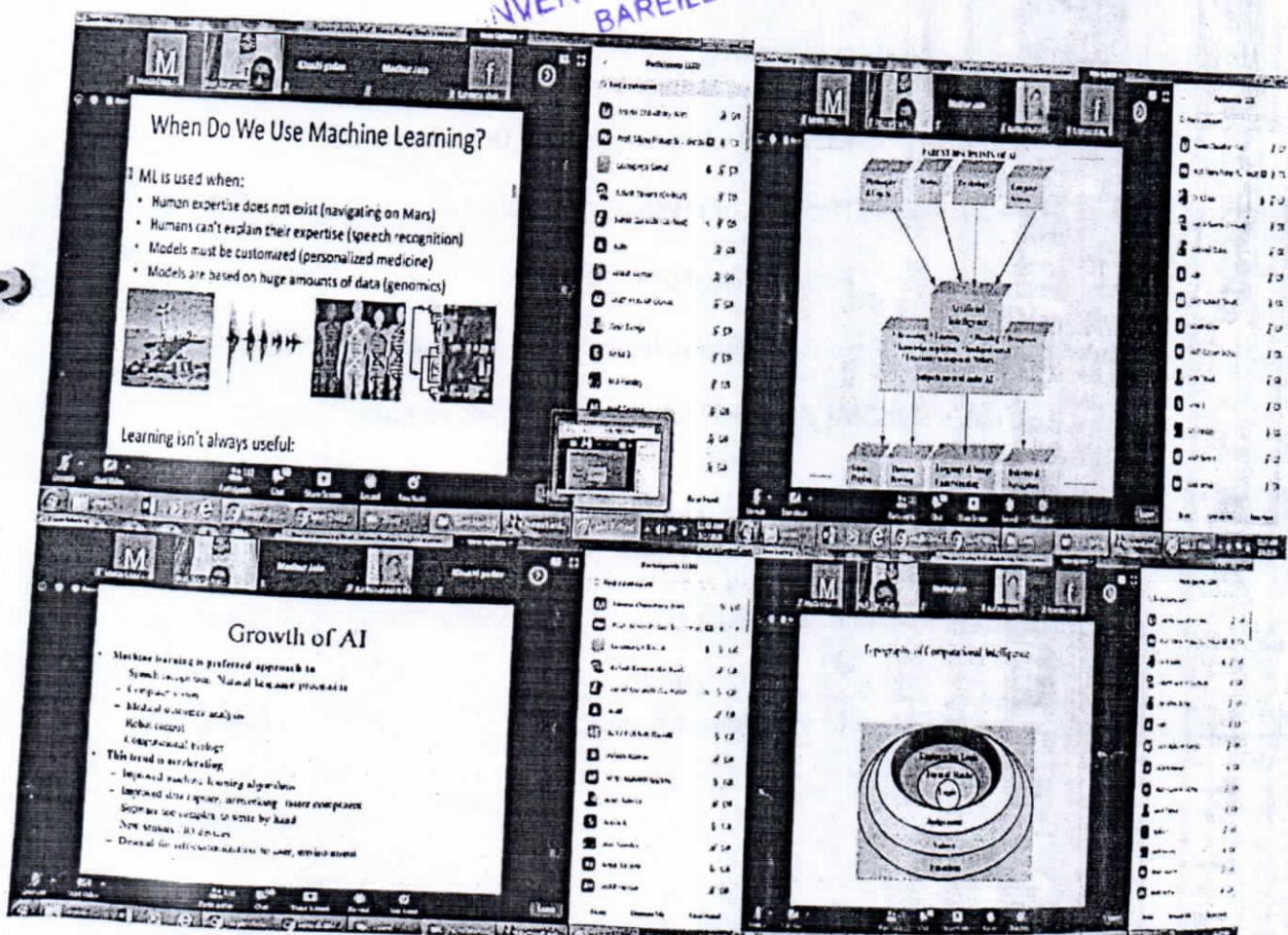
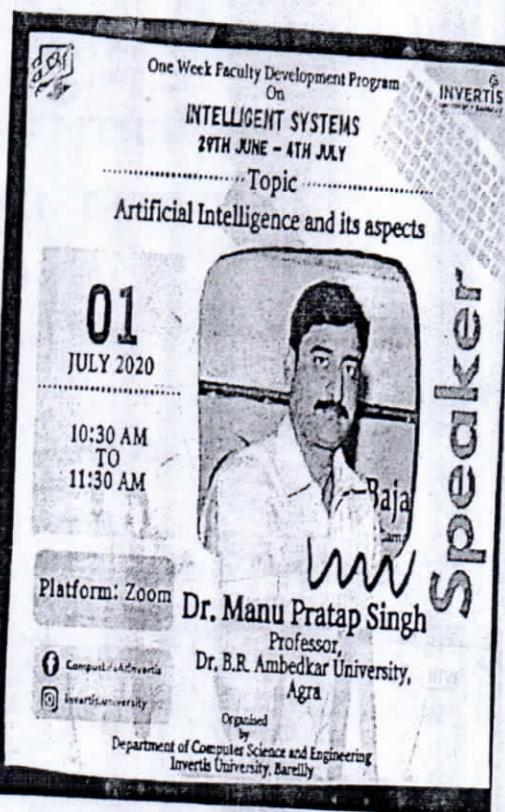
From Mohd Vasim Ahamed to All
voice is breaking again

226
38

Session number : 4
Date : 1st July 2020
Time: 10:30 AM onwards
Speaker : Dr.Manu Pratap Singh
Organization: Professor, Dr. B. R. Ambedkar University, Agra
No. of participants: 105
Topic : Artificial Intelligence and Its aspects

Key Points:

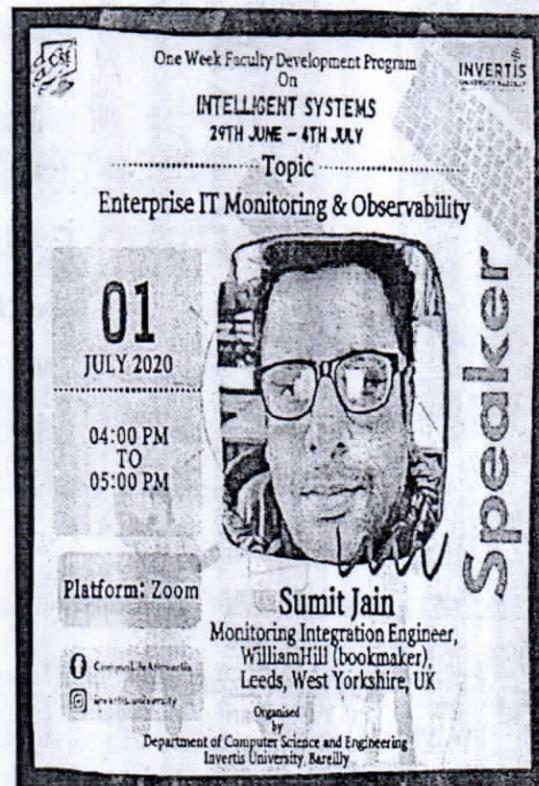
1. Recent development in IT industry such as soft computing, IOT, Intelligent networks, and AOE (artificial intelligence of everything) were introduced.
 2. Symbolic processing as a key to artificial intelligence was explained, and new flavours like cognitive computing and nature-inspired computing were briefly discussed.
 3. Components, disciplines, applications, algorithms, growth and dangers of AI were discussed, some examples of robots like autonomous walker and swimming eel were shown.



Session number: 5
Date : 1st July 2020
Time: 4:00 PM onwards
Speaker : Mr. Sumit Jain
Organization: Monitoring Integration Engineer,
 WilliamHill (bookmaker) Leeds, West Yorkshire,
 UK
No. of participants: 111
Topic: Enterprise IT Monitoring & Observability

Key Points:

1. Explained about enterprise monitoring and how it is useful in IT industry.
2. Discussed about infrastructure monitoring and its application.
3. How Data Collection is done and how the integration is done using cloud native.
4. Discussed about DevOps Enablers its configuration and automation
5. Explained about SaaS and multi-tenancy, its security and real user monitoring



Session number: 6

Date: 1st July 2020

Time: 3:00 PM onwards

Speaker: Prof. Brijesh K. Gupta

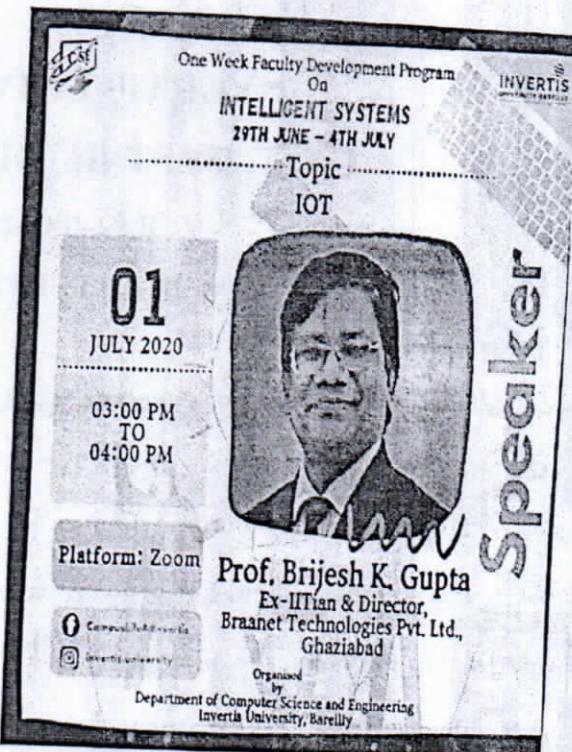
Organization: IIT Delhi, Director Braanet Technologies Pvt. Ltd., Ghaziabad

No. of participants: 104

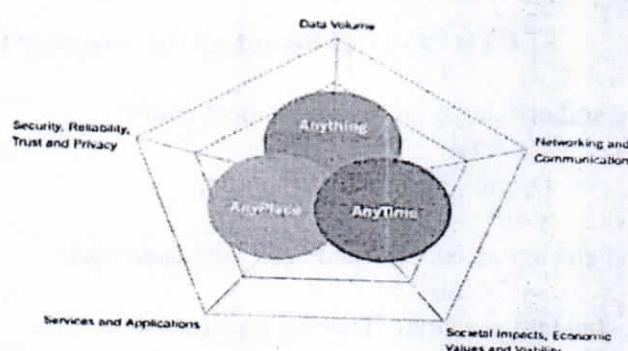
Topic: IoT

KeyPoints:

- Defined the basic architecture of IoT and usability of the IoTs across various real-world applications.
- Demonstrate and Hands-on various IoT applications.
- IoT Business and opportunities.
- Discussed current research status in IoT.

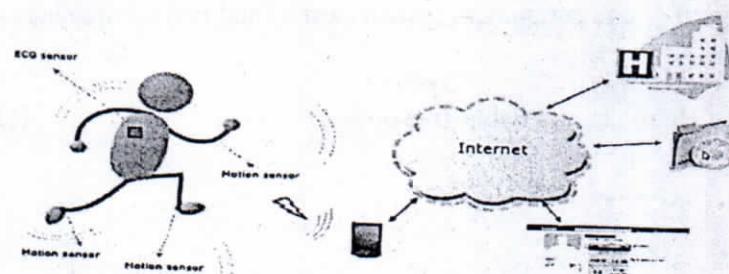


Cyber-Physical-Social Data



B.K. Brijesh Gupta Digitally signed by B.K. Brijesh Gupta
Date: 2020.07.01 15:00:22
Location: [redacted]

People Connecting to Things



Santosh
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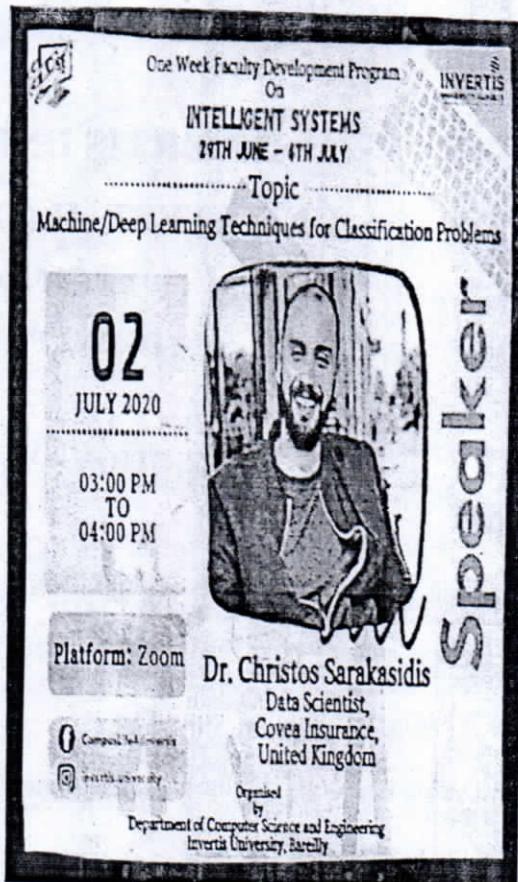
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Session number: 8
Date: 2nd July 2020
Time: 3:00 PM onwards
Speaker: Dr. Christos Sarakasidis
Organization: Data Scientist, Covea Insurance,
UK
No. of participants: 104
Topic: Machine/Deep Learning Techniques for
Classification Problems

KeyPoints:

1. Introduction to Machine Learning.
 2. Examples of machine learning algorithms, linear regression, multilinear regression, and logistic regression, SVM, KNN, Decision trees, etc.
 3. Introduction to deep learning and its relationship with ANN.
 4. Different forms of architectures of neural networks including single-layer perceptron, multilayer perceptron, Hopfield network, Boltzmann machine, etc. were discussed.
 5. Classes of problems in machine learning- Regression and classification problems were explained.



Introductory Notes - Examples of Neural Networks

Zoom

NEURAL NETWORK ARCHITECTURE TYPES

Figure: Neural Network Architecture types.

Start Video Share Participants More

Unmute

Types of problems

There are two main classes of problems in Machine Learning:

- Regression problems - where the training data is continuous, i.e., the values of features and predictions are being drawn from the real line \mathbb{R} .
- Classification problems - where the predictions belong to a finite number of classes.

Remark: In what follows we will be talking about the second class, i.e., classification problems. In particular, we will discuss possible architectures for DevOps pipelines and what Machine Learning methods can guarantee trustworthy results in production level.

Recording

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International Symposium

"Emerging Smart Materials for Advancement of Science and Technology"

on 11-12 June 2021

Organized By

Department of Applied Science and Humanities, Faculty of Sciences



Patron

**Dr. Umesh Gautam
Chancellor,
Invertis University, Bareilly**



Chief Guest

**Prof. Rajendra Girijappa Sonkawade
Professor, Department of Physics
Shivaji University, Kolhapur**



Advisory Committee



**Prof. Y. D. S. Arya
Vice Chancellor**



**Dr. K. K. Dubey
Head, Applied Science
and Humanities**



**Dr. S. P. Gautam
Convenor**



**Prof. Devraj Singh
Director,
Veer Bahadur Singh
Purvanchal University,
Jaunpur**



**Dr. Ratindra Gautam
RML University,
Ayodhya**



**Dr. Nandini Sharma
Guru Nanak Dev College,
Punjab Technical
University, Ludhiana,
Punjab**



**Dr. Utkarsh Kumar
National Chung
Hsing University,
Taichung, Taiwan**



**Anupam Pramanik
SRS Vidyamahapitha,
University of Burdwan,
West Bengal**



Organizing Committee



Dr. Sanjeev Kumar Jain (7217011270)

Dr. Ruchi Mishra (7217011267)

Dr. Yogesh Kumar (7217012771)

Mr. Arun Kaushik (7217011260)

Note - No Registration fees

E-Certificate- After successful completion of the event

Click here for Registration

<https://forms.gle/HFewEoQEEfd5N7DNt8>

**Email:
surya.g@invertis.org**

**Contact Number:
7217011271; 8739032297**



International Symposium

"Emerging Smart Materials for the Advancement of Science and Technology"
(ESMAST-2021)

Organized by

Department of Applied Science and Humanities, Faculty of Sciences,
Invertis University, Bareilly (U.P.) India

Date: (11-12 June 2021)

First Day Schedule

[Click to Join Symposium of MS Team Platform](#)

Innagural Session (11/06/20)		Timings (09:30 am to 11:00 am)
Session Link		<u>Click to Join Symposium</u>
Session Coordinator		Dr. Sanjeev Kumar Jain
09:30 am – 09:35 am		About the Symposium by Convenor, Dr. S. P. Gautam
09:35 am – 09:40 am		Welcome of Dignitaries by the Head of the Department
09:40 am – 09:55 am		Address by Dignitaries
09:55 am – 10:00 am		Introduction of the Chief Guest by the Session Coordinator
10:00 am - 11:00 am		Address by Chief Guest Prof. Rajendra Girjappa Sonkawade, Shivaji University, Kolhapur
Technical Session-1(11/06/20)		Timings (11:00 am to 12:00 pm)
Session Coordinator		Dr. Ruchi Mishra
11:00 am- 12:00 Noon		Invited talk by Prof. Devraj Singh, Director, Veer Bahadur Singh Purvanchal University, Jaunpur
Lunch Break (12:00pm to 01:00 pm)		
Technical Session-2 (11/06/2021)		Timings (01:00 pm to 03:00 pm)
Session Coordinator		Dr. Yogesh Kumar
01:00 am- 02:00 pm		Invited talk by Dr. Nandini Sharma, Guru Nanak Dev College, Punjab Technical University, Ludhiana, Punjab
02:00 pm- 03:00 pm		Invited talk by Dr. Anupam Pramanick, SRS Vidyamahapitha, University of Burdwan, West Bengal

g. K. Tarkar
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International Symposium

“Emerging Smart Materials for the Advancement of Science and Technology”
(ESMAST-2021)

Second Day Schedule

[Click to Join Symposium of MS Team Platform](#)

Technical session-1 (12/06/2021)

Timings (11:00 am to 12:00 pm)

Session Coordinator	Dr. Ruchi Mishra
11:00 am- 12:00 am	Invited talk by Dr. Shalini Trivedi, Masaryk University, Brno, Czech Republic, Europe

Lunch Break (12:00pm to 01:00 pm)

Technical session-2

Timings (01:00 pm to 03:15 pm)

Session Coordinator	Dr. Yogesh Kumar
01:00 pm to 02:00 pm	Invited talk by Dr. Utkarsh Kumar, National Chung Hsing University, Taichung, Taiwan
02:00 to 03:00	Invited talk by Dr. Ratindra Gautam, RML University, Ayodhya
03:00pm-03:15pm	Vote of Thanks by Convenor, Dr. S. P. Gautam

Santosh.

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Expert Lecture

on

Bio-healing materials: Building fire safety, Carbon capture
and bacteria-modified self-healing materials

Dr. Ajitanshu Vedratnam

(Professor-A Universidad de Alcalá, Madrid, Spain
& Assistant Professor – Invertis University)



Venue: Invertis University, Bareilly
Date : 13-04-2021
Time : 10 : 30 A. M. Onwards

Details of the Participants
**"Bio-healing materials: Building fire safety,
carbon capture and bacteria modified self
healing materials"**
(13/04/2021)

S. NO	Name	Signature
1	Krishna Kant	<i>Sai</i>
2	Anuj Kumar	<i>Anuj</i>
3	Ajit Kumar Kumar Singh	<i>Ajit</i>
4	Mr Amit Kumar	<i>Amit</i>
5	Mohit Pathak	<i>Mohit</i>
6	Subodh Kumar Verma	<i>Subodh</i>
7	Manoj Kumar	<i>Manoj</i>
8	Sawan Kumar	<i>Sawan</i>
9	Dheeraj Sagar	<i>Dheeraj</i>

Anuj
(Mr. Anuj Kumar)
Head
Department of Mechanical Engineering
HOD, ME
Invertis University
Bareilly-243123, UP

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BAREILLY

Online Guest Lecture

Presented By ~

Er. Vineet Kumar

Project Manager,

BOSCH, USA

On Topic ~

Active Safety in Car

Activity Coordinator -

Mr. Ajit Kumar Singh

Convenor -

Mr. Dheeraj Sagar

Co-Convenor -

Mr. Amit Kumar

Venue - Online on Google Meet

Date ~
12th JUNE | 2021
Time ~
11:00 AM Onwards



L. V. KUMAR
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Details of the Participants

Active Safety in Car (12/06/2021)

S. NO	Name	Signature
1	Ajitanshu Vedrtnam	Ajitanshu
2	Krishna Kant	Krishna
3	Anuj Kumar	Anuj
4	Ajit Kumar Kumar Singh	Ajit Kumar
5	Mr Amit Kumar	Amit
6	Mohit Pathak	Mohit
7	Subodh Kumar Verma	Subodh
8	Manoj Kumar	Manoj
9	Sawan Kumar	Sawan
10	Dheeraj Sagar	Dheeraj


 (Mr. Anuj Kumar)
 HOD, ME Head
 Department of Mechanical Engineering
 Invertis University
 Bareilly-243123.



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