Indian Institute of Information Technology Allahabad



Annual Report 2022-23

(An Institute of National Importance, MoE, GoI)
Devghat, Jhalwa, Prayagraj-211015, Uttar Pradesh, INDIA
Phone: +91-532-2922025, Email: contact@iiita.ac.in

Patron : Prof. Mukul Sharad Sutaone

Director, IIIT Allahabad

Advisory Board : Prof. Manish Goswami, Dean (Academics & Research)

Dr. Satish Kumar Singh, Registrar (Acting)

Dr. Shiv Ram Dubey, Faculty In-Charge (Institute Ranking, Library & E-Library)

Compiled By: : Shri Rajendra Kumar Jena, Dy. Registrar (Library)

&

Shri Sarvesh Kumar Mishra, Jr. Superintendent (Library)

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Contents

Sl. No.	Discription		Page No.
	From the Director's Desk		4
01	The Institute	• Introduction	6
		• Charter	7
		• Mission	7
		• Vision	7
02	Administration	• The Chairman	9
		• Board of Governors (BoG)	10
		• Finance Committee	11
		• The Director	12
		• Building & Works Committee	13
		• Senate	14
03	Functionaries	• OSD/ Deans/ Associate Deans	16
		• Chairman / Chief Proctor / HoDs / Faculty In-charge	17
		• Wardens	18
		• Administrative & Technical Officers	19
		• Medical Officers & Support Staff	20
04	Academics	• Academic Programmes	25
		• Student's Strength	28
		• Examination Results	29
		• Medals and Awards	30
		• Scholarships/Fellowships/Assistantships	33
		• Placement	35
05	Departments	• Department of Information Technology	40
		• Department of Electronics and Communication Engineering	42
		• Department of Applied Sciences	44
		• Department of Management Studies	46
06	Faculty Profiles		49
07	Research and Development	• Publications Analytics (2018-23)	185
		• Patents & Copyrights	186
		• Projects	193
08	Finance & Accounts		201
09	Memorandum of Understandings (MoUs) / Ranking		206
10	Alumni & International Relations		208
11	Facilities		214
12	Events	• Academic	234
		• Administrative	240
13	Student (Gymkhana) & Activities		243
14	Grievance Redressal Measures		253
15	Sanctioned Posts, Recruitment & Vacancies		257

Message from the Director



Greetings and a Warm Welcome to IIIT Allahabad!!

Education for an individual aims at enrichment, empowerment, and enlightenment, infusing the skills of inquiry in the learner, which in turn illuminates the path of acquiring KNOWLEDGE, translating knowledge into WISDOM that leads to a perpetual journey towards TRUTH. Since humanity collectively tried to fight through a global pandemic, in the last few years, an altogether changed World has evolved.

In this brave new world, one is increasingly convinced that such an empirical threat to the future of humanity can be successfully circumvented only through innovations in Sciences and Engineering, with their rapid translation to sustainable technology; however, within the spheres of humanity, ethics, and symbiotic co-existence. Stellar accomplishments expand the frontiers of knowledge and scholarship every day, and that prompts an earnest need to train the next generation of leaders, technocrats, and scientists who are not only technically skilled but morally attuned to identifying and solving problems that will take the nation forward.

IIIT Allahabad, Prayagraj, has always been uniquely poised and diligently working to tackle such challenges as posed by time, technology, and the changing tastes of learners, thereby strengthening itself to raise its stature and standard to the level it deserves. The institute is perpetually prepared to welcome and reflect the radical changes in technological innovations in its teaching, learning, and research. The academic character of the Institute is serendipitously aligned with the vision carved by the National Education Policy 2020, which in turn will be visible in its all-encompassing undergraduate, masters, research, or outreach programs, committing a distinct learning experience to the aspirants. In the era of collaborations and associations with organizations, industries, and corporations, be they local, overseas, or multi-national, IIITA is more than ready to offer a UNIQUE academic ambience with its Multi/Inter/Trans-disciplinary curricular contents for the holistic development of a learner.

The Journey towards EXCELLENCE ever continues…Let's traverse it together to PERFORM… to DEMONSTRATE….to CONTRIBUTE!!!

वीर्यं सह करवावहै। नौ अधीतम् तेजस्वि अस्तु ।

Prof. Mukul Sharad Sutaone
Director, IIIT Allahabad

1

The Institute

- Introduction
- Charter
- Mission
- Vision
- Future Endeavor

Introduction

The Indian Institute of Information Technology Allahabad (IIITA) was established in 1999 as a center of excellence in Information Technology and allied areas. The institute was conferred "Deemed University" status by the Government of India in 2000.

The Institute has been conceived with the ambitious objectives of developing professional expertise and skilled manpower in Information Technology (IT) and related areas. As an apex nucleating institute in the area of IT, the establishment of IIITA is a major step of the Government of India towards strengthening the indigenous capability necessary for exploiting profitably, harnessing multi-dimensional facets of IT at all levels, and attaining expertise to enable the country to emerge as a leading player in the global arena.

The beautiful 100-acre campus, situated at Devghat, Jhalwa, designed meticulously on the Penrose Geometry pattern, is being further topped by fine landscaping to give an all-round soothing effect and create a stimulating environment.

The campus is envisaged to be a fully residential one, with all its faculty, staff, and students housed in different pockets. All academic and residential areas are connected to the institute network.

Since its establishment, the institute has evolved continuously and flourished under the leadership of:

BoG Chairpersons

- Dr. Anand Deshpande (Sep 22, 2021 to till date)
- Prof. P. Nagabhushan (Aug 06, 2021 to Sep 21, 2021)
- Shri V. K. Modi (Jan 25, 2021 to Aug 05, 2021)
- Prof. P. Nagabhushan (Mar 15, 2019 to Jan 24, 2021)
- Shri Ravi Kant (Jun 22, 2016 to Feb 19, 2019)

Directors:

- Prof. Mukul S. Sutaone, Director (April 2023 to till date)
- Prof. R. S. Verma, Director In-Charge (April 2022 to April 2023)
- Prof. P. Nagabhushan, Director (Jun 2017 to March 2022)
- Prof. G. C. Nandi, Director (Officiating) (July 2016 to May 2017)
- Prof. Somenath Biswas, Director (May 2014 to July 2016)
- Prof. G. C. Nandi, Director In-Charge (January 2014 to April 2014)
- Dr. M. D. Tiwari, Director (August 1999 to December 2013)

Charter

To train and educate certificate, diploma, undergraduate and postgraduate levels, engineers of outstanding ability who may become leaders in the IT industry and profession.

To carry out advanced research and development in leading edge technology areas in Computer Hardware and Software which can be useful over comparatively on a long-term basis.

To develop and promote national and international linkages by way of adjunct faculty, partnership in research, student exchange, academic credit transfer and joint degrees.

To work for the creation and development of resource databases, associated software and courseware for all-important applications so as to ensure future availability of newer software technologies in English, Hindi and other Indian languages.

Mission

The mission of Indian Institute of Information Technology Allahabad (IIITA) is to be a unique and world class nucleating "Apex Centre of Excellence" in the area of Information Technology and Allied Sciences for enhancing India's technological strength in Information Technology and for becoming a pace-setting institution for other similar institutes to be established in future.

IIITA shall seek to derive its strength from its linkage with sound Indian traditions of past centuries and also set out to create knowledge-based resources in regional languages of India.

Vision

The Indian Institute of Information Technology Allahabad strives to become an institute of excellence to train, create, and transform the domain of Information Technology and allied areas. It aims to develop trained human resources to be engaged in Research, Development, Industry/Corporate, Education, and Knowledge Creation in the areas of Information Technology and Allied areas. The institute is committed to instilling a scientific and research aptitude with academic rigor and an innovation aptitude among its members. It seeks to develop an interdisciplinary community with a mix of diverse people, ideas, and cultures that will work towards serving the nation and the World.

Future Endeavor

The institute is working towards NEP 2020, which has Multiple Entry and Exit options (with the flexibility to re-enter at a later stage and pursue a degree program). It also has minor and major specialized courses to be offered.

2

Administration

- The Chairman
- Board of Governors (BoG)
- Finance Committee
- The Director
- Building & Works Committee
- Senate

The Chairman



The Chairman of the Board of Governors of IIIT Allahabad, Dr. Anand Deshpande, is the Founder, Chairman and Managing Director of Persistent Systems (www.persistent.com). Persistent Systems is listed in the Indian stock market (BSE, NSE: PERSISTENT) with more than 18,000 employees in 18 countries and 53 locations.

Dr. Anand holds a B. Tech. (Hons.) in Computer Science and Engineering from the Indian Institute of Technology (IIT), Kharagpur, and a M.S. and a Ph.D. in Computer Science from Indiana University, Bloomington, Indiana, USA.

Prior to founding Persistent Systems, Dr. Anand began his professional career at Hewlett-Packard Laboratories in Palo Alto, California, where he worked as a Member of the Technical Staff. Dr. Deshpande has served in numerous positions at various professional and non-profit organizations, viz., NASSCOM's Executive Council, ACM (Association for Computing Machinery) India, where he was the first President, SEAP (Software Exporters' Association of Pune), Pune Chapter of CSI (Computer Society of India), CII's Pune Zonal Council, Trustee in the Computer History Museum, Trustee in the VLDB Endowment, Dean's Advisory Council in the School of Informatics, Computing, and Engineering of Indiana University, and the Vice President of the Executive Committee of MCCIA. Dr. Anand Deshpande is currently the Chairman, Board of Governors of IIT Patna, on the Board of the College of Engineering, Pune, and on the Board of the Gokhale Institute for Politics and Economics. With his family, he has set up the deAsra Foundation (www.deasra.in) to promote nano-entrepreneurs.

Message

IIIT Allahabad has emerged as one of the premier technology institutes in the country. The Institute recently celebrated its twentieth anniversary by showcasing its outstanding achievements since inception. The world is changing exponentially. The technology that we use today will become obsolete in the years to come. In this fast-changing world, it is important that we educate students who know how to learn and adapt continuously. The IIIT Allahabad has emerged as one such place. The IIIT Allahabad curriculum is very aptly designed to support the needs of students in the modern world. The curriculum is flexible and provides in-depth knowledge of modern technologies such as Artificial Intelligence, Bioinformatics, Web3, and the Metaverse. Classroom instruction is coupled with hands-on laboratories and project work that help students acquire practical skills about in-depth subjects.

The multidisciplinary academic structure has been the hallmark of the institute. The institute has a tradition of research that spans multiple areas, from life sciences to information science, and is well aligned with the National Education Policy.

I wish the staff, faculty, and students of IIITA all the best!

Dr. Anand Deshpande
Chairman, Board of Governors

Board of Governors (BoG)

Chairman



Dr. Anand Deshpande

Members

		
Prof. Rama Shanker Verma Director (Acting), IIIT Allahabad	**Shri Rakesh Ranjan** AS (TE), MoE (From April, 2022 to March 8, 2023)	**Smt. Saumya Gupta** JS (TE), MoE (From March 9, 2023 onwards)
		
Dr. Jaideep Kumar Mishra JS & Group Coordinator MoE MeitY, New Delhi (April, 2022 to February 21, 2023)	**Shri Bhuvnesh Kumar** AS & Group Coordinator MeitY, New Delhi (February 22, 2023 onwards)	**Prof. Abhay Karandikar** Director, IIT Kanpur
		
Prof. Archana Shukla Director, IIM Lucknow	**Padma Shri Prof. Manindra Agrawal** Dept. of CSE, IIT Kanpur	**Shri Rahul Singh** MD, GAPL, New Delhi
		Additional Chief Secretary Dept. of IT & Electronics, Govt. of U.P., Lucknow
Dr. Anand Bulusu Professor, DoECE, IIT Roorkee	**Prof. Arvind Choubey** Director, IIIT Bhagalpur, Bihar	

		**Secretary**	
Prof. Shekhar Verma Professor, DoIT IIIT Allahabad	**Prof. Tapobrata Lahiri** Professor, DoAS IIIT Allahabad	 **Prof. Vijaishri Tewari** (April, 2022 to October 24, 2022)	 **Dr. Satish Kumar Singh** (October 25, 2022 onwards)
		Registrar (Acting), IIIT Allahabad	

Finance Committee

<table>
<tr><th colspan="4">Chairman</th></tr>
<tr><td colspan="4">
Dr. Anand Deshpande
Founder, Chairman, and Managing Director of Persistent Systems, Pune / Chairperson of Board of Governors, IIT Patna</td></tr>
<tr><th colspan="4">Members</th></tr>
<tr><td>
Shri Priyank Chaturvedi
Deputy Secretary
(IITs/IIITs), MoE, New Delhi</td><td>
Shri Anil Kumar
Director (Finance)
MoE, New Delhi</td><td>
Dr. CA Phalguna Kumar
CA & Managing Partner,
M/s. E. Phalguna Kumar & Co.,
Tirupati, (A.P.)</td><td>
Shri Munish Malik
Chief Executive Officer
NPS Trust, New Delhi</td></tr>
<tr><td rowspan="2">
Prof. Rama Shanker Verma
Director (Acting)
IIIT Allahabad</td><td colspan="3">Secretary</td></tr>
<tr><td>
Prof. Vijaishri Tewari
(April, 2022 to October 24, 2022)</td><td colspan="2">
Dr. Satish Kumar Singh
(October 25, 2022 onwards)</td></tr>
<tr><td colspan="3">Registrar (Acting), IIIT Allahabad</td></tr>
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The Director



Professor Rama Shanker Verma was the Director (Acting) of the Indian Institute of Information Technology, Allahabad. He is also serving as the Director of the Motilal Nehru National Institute of Technology (MNNIT), Allahabad. Before joining MNNIT, he served as a Professor at the Department of Biotechnology, IIT Madras. He was also the Head of the Laboratory of Stem Cell and Molecular Biology, Bhupat and Jyoti Mehta School of Biosciences, IIT Madras. He has made major contributions to the development of indigenous medical devices and tissue engineering.

He guided 32 PhDs and more than 100 M.Tech. and MS students. Published 206 research papers and several book chapters (15) and review papers on Stem Cell Biology, Tissue Engineering, Fanconi Anemia, and immunotoxin-based Cancer Therapeutics. Papers published in various prestigious journals such as Blood, JCI, JBC, BBA, J of Material Science, Drug Discovery Today, Oncotarget, Advanced Healthcare Material, Cancer Letter, Apoptosis, Nanomedicine, etc.

Prof. Verma is an Elected Fellow of the National Academy of Sciences (India-Allahabad) (2014), the Association of Microbiology of India (FEMI) 2010, the Biotech Research Society, India (2015), Society for Applied Biotechnology (2011), and the Madras Research Foundation. He has been awarded the Lifetime Achievement Award by the Nature Science Foundation, Coimbatore; the ABAP Senior Scientist Award 2014 by the Society for Applied Biotechnology and Applied Pharmacy India; the Award for Excellence in Medical Biotechnology by the Society for Applied Biotechnology, India (2011); and the Genomic Pioneer Recognition Award 2008, held at the HUGO's International Human Genome Meeting, Hyderabad, India.

Building & Works Committee

Chairman



Prof. Rama Shanker Verma
Director (Acting)
IIIT Allahabad

Members

Shri Rajiv Garg Superintending Engineer IIT Kanpur	**Shri Anil Kumar Sharma** Chief Engineer (Civil) CPWD (NZ-II), Lucknow	**Shri Rajeev Kumar Singh** Superintending Engieer UPPCL, Civil Lines, Prayagraj



Prof. Pritish Kumar Varadwaj
Dean (Infrastructure, IWD, Estate)
(April, 2022 to December 28, 2022)



Prof. O. P. Vyas
Dean (Infrastructure & IWD)
(December 29, 2022 onwards)

Secretary



Prof. Pritish Kumar Varadwaj
Dean (Estate)
(April, 2022 to December 28, 2022)



Dr. Satish Kumar Singh
Registrar (Acting) & In-charge of Estate
(December 29, 2022 onwards)

Senate (As per IIITs Act, 2014)

Director of the Institute, Ex-officio Chairperson	• **Prof. R. S. Verma** Director (Acting), IIIT Allahabad
Deputy Director (Ex-officio)	• NIL
Deans (Ex-officio)	• Prof. U.S. Tiwary, Dean (Faculty Affairs) • Prof. Shekhar Verma, Dean (Special Development Affairs) • Prof. Anupam Agrawal, Dean (Alumni Affairs) • Prof. Manish Goswami, Dean (A&R) • Prof. O.P. Vyas, Dean (TD & IWD) • Prof. Madhvendra Misra, Dean (I&NR) • Prof. Vrijendra Singh, Dean (Student Affairs)
Head of the Dept. of the Institute	• Prof. Pavan Chakraborty/ Dr. K.P. Singh, HoD (IT) • Dr. Rajat Kumar Singh/ Dr. Sanjai Singh, HoD (ECE) • Dr. Ratan Kumar Saha, HoD (AS) • Dr. Shailendra Kumar/ Dr. Pragya Singh, HoD (MS)
All Professors other than the Deans or HoDs	• Prof. G. C. Nandi, Professor • Prof. Tapobrata Lahiri, Professor • Prof. Vijaishri Tewari, Professor • Prof. Neetesh Purohit, Professor • Prof. Vrijendra Singh, Professor • Prof. Pritish Varadwaj, Professor
Three persons from amongst educationist of repute or persons from another field related to the activities of the Inst. Who are not in service of the Inst. Nominated by the BoG	• Prof. Siddhartha Panda, Professor, Deptt. of Chemical Engineering, IIT Kanpur • Prof. Laxmidhar Behera, Professor, Deptt. of Electrical Engineering, IIT Kanpur • Prof. K. Chindananda Gowda, Ex-VC, Kuvempu University
Three persons who are not members of teaching staff co-opted by the Senate for their specialized knowledge	• Prof. Ganesh Ramakrishnan, Professor, Deptt. of Computer Science & Engineering, IIT Bombay • Dr. Santanu Dasgupta, Senior Vice President, Reliance Industries Limited, Mumbai, Maharashtra • Prof. A. G. Ramakrishnan, Professor, Deptt. of Electrical Engineering, IISc-Bangalore
Registrar of the Institute Ex-officio Secretary	• Dr. Satish Kumar Singh Registrar (Acting), IIIT Allahabad

3

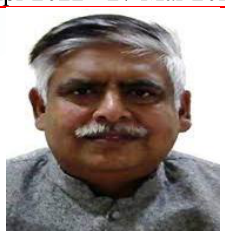
Functionaries

- **OSD / Deans / Associate Deans**
- **Chairman (CoW) / Chief Proctor / HoDs / Faculty In-charge**
- **Wardens**
- **Administrative, Technical Officers & Medical Officers**
- **Support Staffs**

OSD / Deans / Associate Deans

 **Dr. Akhilesh Tiwari** Officer-on-Special-Duties	 **Prof. U. S. Tiwary** Dean (Faculty Affairs)	 **Prof. Shekhar Verma** Dean (SDA)	 **Prof. Manish Goswami** Dean (R&D)
08.12.2022 - till date	Apr 2022 - till date	Apr 2022 - till date	Apr 2022 - 26 Mar 2023
 **Prof. Anupam Agrawal** Dean (Alumni Affairs)	 **Prof. Neetesh Purohit** Dean (Academic)	 **Prof. Manish Goswami** Dean (Academic)	 **Prof. Manish Goswami** Dean (A&R)
Apr 2022 - till date	Apr 2022 - 5 Dec 2022	6 Dec 2022 - 26 Mar 2023	27 Mar 2023 - till date
 **Prof. O.P. Vyas** Dean (TD)	 **Prof. Pritish Varadwaj** Dean (IRI)	 **Prof. O.P. Vyas** Dean (IRI)	 **Prof. Madhvendra Misra** Dean (INR)
Apr 2022 - till date	Apr 2022 - 27 Dec 2022	28 Dec 2022 - till date	Apr 2022 - till date
 **Prof. Vrijendra Singh** Dean (Student Affairs)	 **Prof. Ranjit Singh** Dean (Student Affairs)	 **Dr. Satish Kumar Singh** Associate Dean (IRGL)	 **Dr. Manish Kumar** Associate Dean (S&P)
Apr 2022 - Aug 2022	Sep 2022 - till date	Apr 2022 - 26 Mar 2023	Apr 2022 - till date
 **Dr. S. Venkatesan** Associate Dean (NMHC)	 **Dr. Ashutosh K. Singh** Associate Dean (S&M)	**Section controlled by Registrar Office** Associate Dean (H&T)	
Apr 2022 - till date	1 Dec 2022- till date	Apr 2022 - till date	

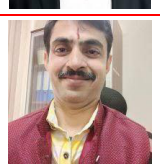
Chairman / Chief Proctor / HoDs / Faculty In-charge

 **Prof. Ranjit Singh** Chairman (CoW)	 **Dr. Prasanna Mishra** Chairman (CoW)	 **Dr. K.P Singh** Chief Proctor	 **Dr. Akhilesh Tiwari** Chief Proctor
Apr 2022 - 27 Mar 2023	28 Mar 2023 - till date	Apr 2022 - 7 Sep 2022	8 Sep 2022 - till date
 **Prof. Pavan Chakraborty** HoD (IT)	 **Dr. K.P Singh** HoD (IT)	 **Dr. Rajat Kumar Singh** HoD (ECE)	 **Dr. Sanjai Singh** HoD (ECE)
Apr 2022 - 27 Mar 2023	28 Mar 2023 - till date	Apr 2022 - 17 Aug 2022	18 Aug 2022 - till date
 **Dr. Ratan Kumar Saha** HoD (AS)	 **Dr. Shailendra Kumar** HoD (MS)	 **Dr. Pragya Singh** HoD (MS)	 **Dr. Triloki Pant** Faculty I/c (S&M)
	Apr 2022 - 29 Nov 2022	30 Nov 2022 - till date	Apr 2022 - 30 Nov 2022
 **Dr. Vineet Tiwari** Faculty I/c (T&P)	 **Dr. Muneendra Ojha** Faculty I/c (T&P)	 **Dr. Sunil Yadav** Faculty I/c (Sports)	 **Dr. B. Shantibhushan** Faculty I/c (Sports)
Apr 2022 - 27 Nov 2022	28 Nov 2022 - till date	Apr 2022 - 27 Nov 2022	28 Nov 2022 - till date
 **Dr. Shiv Ram Dubey** Faculty I/c (IRGL)	 **Prof. Madhvendra Misra** Chairman, Grievance Cell	 **Dr. Rajat Kumar Singh** Chairman, Grievance Cell	
27 Mar 2023 - till date	Apr 2022 - 27 Nov 2022	28 Nov 2022 - till date	

Wardens

 **Dr. Sunny Sharma** Warden, Boys Hostel-I	 **Dr. Srijit Bhattacharjee** Warden, Boys Hostel-II	 **Dr. Anshu S. Anand** Warden, Boys Hostel-III	 **Dr. Mohd. Javed** Warden, Boys Hostel-IV
Apr 2022 - till date	Apr 2022 - till date	Apr 2022 - till date	Apr 2022 - till date
 **Dr. Amar Nath Yadav** Warden, Boys Hostel-V	 **Dr. Kavindra Kandpal** Warden, Boys Hostel-V	 **Dr. Anjali Gautam** Warden, Girls Hostel-I	 **Dr. Seema Kushwaha** Warden, Girls Hostel-II
Apr 2022 - till date	Apr 2022 - till date	Apr 2022 - till date	Apr 2022 - till date
 **Dr. Savitri Joshi** Warden, Girls Hostel-III			
Apr 2022 - till date			

Administrative Officers

Sl. No.		Name, Designation & Date of Joining	Sl. No.		Name, Designation & Date of Joining
1		**Dr. Satish Kumar Singh** Registrar (Acting) **(25 Oct'2022 onwards)**	2		**Prof. Vijaishri Tewari** Registrar (Acting) **(Apr, 2022 to 24 Oct'2022)**
3		**Dr. Asheesh Kumaar** Joint Registrar (AAA) **Date of Joining:** 10.01.2001	4		**Dr. Seema Shah** Joint Registrar (S&P) **Date of Joining:** 13.08.2000
5		**Shri O P Srivastava** Joint Registrar (F&A) **Date of Joining:** 01.05.2015	6		**Dr. Pavan Kr. Saini** Joint Registrar (Estt.) **Date of Joining:** 04.02.2016
7		**Shri Rajendra Kr. Jena** Dy. Registrar (Library) **Date of Joining:** 11.09.2018	8		**Dr. Kanchan Kr. Tiwari** Assistant Registrar (SS) (AAA) **Date of Joining:** 09.05.2002
9		**Shri Ranjeet Banerjee** Assistant Registrar (R&D) **Date of Joining:** 04.09.2010	10		**Shri Vivek Nagar** Assistant Registrar (F&A) **Date of Joining:** 11.01.2004
11		**Shri Niranjan Kumar** Assistant Registrar (P) **Date of Joining:** 16.03.2016			**Shri Jayant Biswas** Assistant Registrar (Audit) **Date of Joining:** 31.08.2018

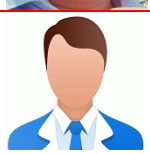
Technical Officers

1		**Dr. Mithilesh Kr. Mishra** Technical Officer (SS) **Date of Joining:** 29.08.2000	2		**Shri Ajay Kumar Tiwari** Technical Officer **Date of Joining:** 08.06.2016
3		**Shri Abhinaba Basu** Technical Officer **Date of Joining:** 30.06.2016			

Medical Officers (on Contract)

1. **Dr. Kaushlesh Dwivedi,** Medical Officer (General Physician)
2. **Dr. Ashok Kumar Singh,** Medical Officer (Surgeon)
3. **Dr. K. S. Pandey,** Medical Officer (Homeopathic)
4. **Dr. Pritima,** Medical Officer (Gynaecologist)
5. **Dr. Avinash Jaiswal,** Medical Officer (Orthopedist)

Support Staff

1		**Shri Rajeev Kr. Bhatia** Superintendent **Date of Joining:** 04.06.2003	2		**Shri Rajendra Singh Bisht** Superintendent **Date of Joining:** 01.09.2000
3		**Shri Prashant Kumar Srivastava** Technical Superintendent **Date of Joining:** 07.10.2011	4		**Shri Yogesh Kardam** Technical Superintendent **Date of Joining:** 21.08.2000
5		**Shri Anil Bhadauria** Assistant Engineer **Date of Joining:** 06.03.2010	6	 Photo Not Provided	**Shri Gaj Raj Singh** Assistant Engineer **Date of Joining:** 06.03.2010
7		**Shri Akhilesh Kumar** Junior Engineer **Date of Joining:** 06.03.2010	8		**Shri Satya Prakash Sahu** Junior Engineer **Date of Joining:** 11.04.2016
9		**Shri Avinash Mishra** Junior Engineer **Date of Joining:** 22.10.2019	10		**Shri Manik Chandra** Junior Engineer (Civil) **Date of Joining:** 22.11.2021
11		**Shri Sanjay Kumar** Junior Superintendent **Date of Joining:** 13.07.2012	12		**Shri Sunil Kashyap** Junior Superintendent **Date of Joining:** 01.08.2012
13		**Shri K. S. Aeron** Junior Superintendent **Date of Joining:** 30.05.2003	14		**Ms. Ankita Jaiswal** Junior Superintendent **Date of Joining:** 11.02.2016

15		**Shri Sandeep Kumar Keserwani** Junior Superintendent **Date of Joining:** 19.03.2004	16		**Mohd. Saleem Ansari** Junior Superintendent **Date of Joining:** 04.02.2011
17		**Mrs. Asha Shukla** Junior Superintendent **Date of Joining:** 04.02.2011	18		**Ms. Jagriti Bajaj** Junior Superintendent **Date of Joining:** 09.03.2016
19		**Dr. (Mrs.) Archita Rai** Junior Superintendent **Date of Joining:** 01.02.2016	20		**Shri Neeraj Srivastava** Junior Superintendent **Date of Joining:** 01.02.2016
21		**Shri Kapil Srivastava** Junior Superintendent **Date of Joining:** 23.10.2012	22		**Shri Abhishek Pandey** Junior Superintendent **Date of Joining:** 23.10.2012
23		**Shri Manohar Kumar** Junior Superintendent **Date of Joining:** 23.12.2021	24		**Shri Sarvesh Kumar Mishra** Junior Superintendent (Library) **Date of Joining:** 06.03.2010
25		**Shri Atul Tripathi** Junior Superintendent (Library) **Date of Joining:** 05.02.2016	26		**Shri Durgesh Kumar** Junior Technical Superintendent **Date of Joining:** 04.02.2011
27		**Shri Santosh** Junior Technical Superintendent **Date of Joining:** 22.02.2011	28		**Shri Shailendra Singh** Junior Technical Superintendent **Date of Joining:** 17.03.2005
29		**Shri Kaushal Kr. Singh** Junior Technical Superintendent **Date of Joining:** 17.03.2005	30		**Shri Ashutosh Shukla** Junior Technical Superintendent **Date of Joining:** 04.02.2011
31		**Shri Rajit Ram Yadav** Junior Technical Superintendent **Date of Joining:** 23.10.2012	32		**Shri Himanshu Pandey** Junior Technical Superintendent **Date of Joining:** 23.10.2012

33		**Shri Santosh Kr. Mishra** Junior Technical Superintendent **Date of Joining:** 04.02.2011	34		**Shri Pankaj Srivastava** Junior Technical Superintendent **Date of Joining:** 17.03.2005
35		**Shri Girish Kr. Dixit** Junior Technical Superintendent **Date of Joining:** 17.03.2005	36		**Shri Pramod Narayan Tripathi** Junior Technical Superintendent **Date of Joining:** 23.10.2012
37		**Shri Upendra Kashniyal** Junior Technical Superintendent **Date of Joining:** 13.07.2018	38		**Dr. (Mrs.) Pallavi Dixit** Junior Technical Superintendent **Date of Joining:** 06.12.2018
39		**Shri Santosh Kr. Yadav** Junior Technical Superintendent **Date of Joining:** 23.10.2012	40		**Mrs. Pratibha Verma** Junior Technical Superintendent **Date of Joining:** 25.10.2012
41		**Shri Ajit Kumar** Junior Technical Superintendent **Date of Joining:** 18.11.2021	42		**Mrs. Priya Pal** Staff Nurse **Date of Joining:** 05.11.2012
43		**Mrs. Blessy Anie Shaiju** Staff Nurse **Date of Joining:** 15.11.2012	44		**Shri Vinod Narayan Tripathi** Pharmacist **Date of Joining:** 13.04.2010
45		**Mohd. Izhar** Pharmacist **Date of Joining:** 23.04.2010	46		**Shri Subhash** Superintendent (Hospitality) **Date of Joining:** 29.10.2000
47		**Shri Pankaj Mishra** Senior Assistant **Date of Joining:** 15.02.2007	48		**Shri Sumit Kumar Shukla** Senior Assistant **Date of Joining:** 23.10.2012
49		**Shri D. N. Shukla** Senior Assistant **Date of Joining:** 30.05.2003	50		**Shri Manish Khare** Senior Assistant **Date of Joining:** 26.05.2016

51		**Shri Manoj Kumar Upadhyay** Senior Assistant **Date of Joining:** 15.11.2012	52		**Shri Deep Narayan Das** Senior Assistant **Date of Joining:** 12.02.2016
53		**Shri Abhishek Kumar** Senior Assistant **Date of Joining:** 06.11.2012	54		**Mrs. Prabha Verma** Senior Assistant **Date of Joining:** 15.11.2012
55		**Mrs. Ritu Srivastava** Junior Assistant **Date of Joining:** 27.12.2013	56		**Shri Jay Singh** Junior Assistant **Date of Joining:** 21.06.2019
57		**Shri Vaibhav** Junior Assistant **Date of Joining:** 09.07.2019	58		**Shri Anand Prakash Srivastava** Junior Assistant **Date of Joining:** 18.11.2021
59		**Shri Dheeraj Yadav** Junior Assistant **Date of Joining:** 09.12.2021	60		**Shri Raj Kumar Rawat** Driver **Date of Joining:** 01.03.2003
61		**Shri Satish Kumar** Driver **Date of Joining:** 24.06.2008			

4

Academics

- Academic Programmes
- Students' Strength
- Examination Results
- Medals and Awards
- Scholarships/Fellowships/Assistantships
- Placement

Academic Programmes

Currently Running Program

- The Program being offered by the institute are B.Tech., MTech. & PhD Programs in IT, ECE, AS & MBA discipline.

Highlights to Academic Programs

- **Continuous Assessment:** refer to the evaluation of the student spread over the entire semester on the various constituent components of the prescribed course.
- **Course Drop:** refer to a student having to undertake a repeat of the Course(s) not being able to complete the Credit requirements of the Course(s), under the conditions stipulated in the Ordinance.
- **Make Up Exam:** refer to the examination(s) conducted to allow the student to appear in the uncleared / underscored Sem - End C3 component, with a view to accord him an additional opportunity to improve upon his previous score.
- **Blank Semester:** refer to a Semester in which a student either does not register for any course at the beginning of the Semester OR chooses to DROP all courses OR is so compelled to DROP all the courses, as the case may be.
- **Spill Over Semester:** refer to the additional semester(s) beyond the completion of prescribed normal semesters.
- **Add On Courses:** refer to the Courses taken in addition to the regular prescribed courses for the completion of the normal degree, with a view to acquire added proficiency. These courses may be undertaken during and along with the routine semester courses OR additionally during the spillover Semester(s) i.e. upon extra time expenditure.
- **Types of Assessment:** It consists of Formative Assessment during the semester and Summative Assessment at semester end.
- **ADD ON Credits & Certifications:**

B.Tech.:

1) In addition to the 160 Credits that a student is required to be enrolled in, a student could additionally enroll himself in few Credit Courses as per below, so as to earn ADD ON Credits:

   a) B.Tech - Additionally, a minimum of 16 Credits can be earned as ADD On Credits.

   b) If all the 16 ADD ON Credits are earned from the Department of the initial Degree enrollment, the student would get the B.Tech. Degree with Honours (Splsn in xxxxx). All departments would define one or more such specializations and the courses for each such specialization, apriori.

c) If the 16 ADD ON Credits are earned from any one of the particular Sister Department of the initial Degree enrollment, the student would get the B.Tech. Degree with Honours (Minor in xxxxx). All departments would define one or more such specializations and the courses for each such Minor, apriori.

d) In addition to the Regular Degree a "ADD on Diploma" shall be awarded, if the 16 ADD ON Credits are earned from an assortment of Departments.

e) If less than 16 Add-ON credits are earned then Add-ON Certification for xxxx credits) would be issued.

2) The upper limit of Per Semester Credits, for which a B.Tech. student, could at any time enroll himself would NOT exceed 24 Credits

3) ADD ON Courses cannot be registered for during Summer Semester(s) EXCEPT when it is for an internship.

4) The ADD ON Internship and Self Study Elective(s), also follow C1, C2 and C3 pattern of assessment.

M.Tech.:

5) In addition to the 64 credits that a student is required to be enrolled in, a student could additionally enroll himself/herself to additional course credits, upto a maximum of 16 credits, which he/she will earn as “ADD ON” credit certification.

6) The upper limit per semester credits, for which a M.Tech. students could at any time enroll himself would NOT, in general, exceed 24 credits to accommodate Dropped Courses/ Add-ON courses.

7) The ADD ON internship and Self Study elective(s), will also follow – C1, C2 and C3 pattern of assessment.

MBA:

8) In addition to the 76 Credits that a student is required to be enrolled in, a student could additionally enroll himself in few Credit Courses as per below, so as to earn ADD ON Credits:

a. MBA - Additionally, a maximum of 16 Credits can be earned as ADD On certification.

b. If ALL the 16 ADD ON Credits are earned from the Department of the initial Degree enrollment, the student would get the MBA Degree with Honours (Splsn in xxxxx). All departments would define one or more such specializations and the courses for each such specialization, apriori.

c. If the 16 ADD ON Credits are earned from any one of the particular Sister Department of the initial Degree enrollment, the student would get the MBA Degree with Honours (Minor in xxxxx). All departments would define one or more such specializations and the courses for each such minor, apriori.

d. In addition to the Regular Degree an "ADD on Diploma" shall be awarded, if the 16 ADD ON

Credits are earned from an assortment of Departments.

e. If less than 16 Add-ON credits are earned then Add-ON Certification for xxxx credits) would be issued.

9) The upper limit of Per Semester Credits, for which a MBA student, could at any time enroll himself would NOT exceed 24 Credits

Centers

- At present the institute is also engaged in strengthening the centre in the area of Intelligent Robotics, Cognitive Computing and Entrepreneurial Skill and Capacity Induction.
- Examination reform is proposed and is likely to be implemented from July 2023 session. The exam reform has important features like:
    - Mid and End exams
    - Teacher's internal assessment for lab, attendance, quiz, assignments etc.
    - The back papers
    - Letter grade

Students' Strength

S. No.	Name of Programme	2022	
		Approved Intake	Actual Intake
1	B. Tech (IT)	330	300
2	B. Tech (ECE)	176	153
3	B. Tech (IT-Business Informatics)	46	45
4	M.Tech (IT)	144	98
5	M.Tech (ECE)	58	30
6	M.Tech (BI)	28	16
7	M.Tech (DSA)	20	14
8	M.B.A.	109	62

*Admission under DASA and SII Category, Excluding PhD data.

Santioned (Approved) Intake (As per NIRF 2023)

Academic Year	2021-22	2020-21	2019-20	2018-19	2017-18
UG [4 Years Program(s)]	439	439	388	310	231
UG [5 Years Program(s)]	0	0	0	0	76
PG [2 Years Program(s)]	220	195	158	-	-
PG-Integrated	0	0	0	0	36

Total Actual Student Strength (As per NIRF 2023)

All programs of all years	No. of Male Students	No. of Female Students	Total Students	Within State (Including male & female)	Outside State (Including male & female)	Outside Country (Including male & female)	Economically Backward (Including male & female)	Socially Challenged (SC+ST+OBC Including male & female)
UG [4 Years Program(s)]	1265	281	1546	387	38	99	757	42
UG [5 Years Program(s)]	57	5	62	18	0	0	33	0
PG [2 Year Program(s)]	267	61	328	97	0	31	147	0
PG-Integrated	18	4	22	11	0	0	11	0

Examination Results

Under Graduate

Academic Session	Name of Courses	No. of Students Passed				
		Boys		Girls		Total
		With Distinction	Without Distinction	With Distinction	Without Distinctio	
July 2019-June 2023	B.Tech. (IT)	66	117	14	37	234
Previous Year	B.Tech. (IT)	00	02	00	00	02
July 2019-June 2023	B.Tech. (ECE)	31	59	05	16	111
Previous Year	B.Tech. (ECE)	00	01	00	00	01
July 2019-June 2023	B.Tech. (IT BIn)	06	26	01	06	39
		103	205	20	59	
TOTAL (a)		**308**		**79**		**387**

Post Graduate

Academic Session	Name of Program	Specialization	No. of Students Passed				
			Boys		Girls		Total
			With Distinction	Without Distinction	With Distinction	Without Distinction	
July 2021-June 2023	M.Tech. (IT)	MCL	05	05	04	01	15
		MDE	07	03	05	00	15
		MML	11	02	01	00	14
		MHC	05	05	04	01	15
		MSE	11	00	03	01	15
		MWC	01	11	00	01	13
		MIT	10	05	00	00	15
		MRM	02	03	00	00	05
July 2021-June 2023	M.Tech. (BI)	BI	08	04	05	00	17
July 2021-June 2023	M.Tech. (ECE)	Micro-electronics	15	05	04	00	24
		ECE	03	08	01	03	15
Jan. 2021-Jun. 2023	M.Tech. DSA		00	01	00	00	01
July 2021-June 2023	MBA	---	09	18	08	07	42
			87	**70**	**31**	**18**	
TOTAL (b)			**157**		**49**		**206**

Dual Degree

Academic Session	Name of Program	No. of Students Passed			
		Specialisation	Boys(s)	Girl(s)	Total
Previous Year July 2014 - June 2023	Dual Degree B.Tech. and M.Tech.	BME	01	00	01
----------	Dual Degree M.Tech. and PhD	----------	06	01	07
----------	PhD	----------	13	01	14
	Total (c)		**20**	**02**	**22**
		Total [a+b+c]	**485**	**130**	**615**

Graduands Statistics for UG, PG, DD & PhD

Academic Program	No. of Students Passed		
	Boys(s)	Girl(s)	Total
Under Graduate Students	308	79	387
Post Graduate Students	157	49	206
Dual Degree B.Tech and M.Tech.	01	00	01
Dual Degree M.Tech. and PhD	06	01	07
Doctor of Philosophy Students	13	01	14
Total	**485**	**130**	**615**

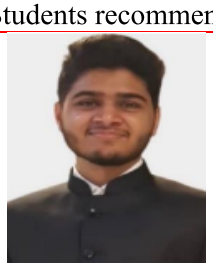
Medals and Awards

Chairman's Gold Medal for the Year 2023



Vishesh Mittal (IEC2019057)

Institute Medals

Gold	Silver	Bronze
B. Tech. (IT)		
Students recommended for Award of Institute Medals (Academic Batch July 2019 - June 2023)		
 **Prince Kumar (IIT2019130)**	 **Aditya Aggarwal (IIT2019210)**	 **Divy Agrawal (IIT2019211)**
B. Tech. (ECE)		
Students recommended for Award of Institute Medals (Academic Batch July 2019 - June 2023)		
 **Vishesh Mittal (IEC2019057)**	 **Mohit Garg (IEC2019011)**	 **Chaitanya Joshi (IEC2019083)**
M. Tech. (IT)		
Students recommended for Award of Institute Medals (Academic Batch July 2021 - June 2023)		

 Akansha Lal (MIT2021063)	 Riya Kalra (MIT2021055)	 Neha V. Sarnaik (MIT2021085)
M. Tech. (ECE) Students recommended for Award of Institute Medals (Academic Batch July 2021 - June 2023)		
 Pawan Shau (MEC2021026)	 Manoj Kumar Singh (MEC2021027)	 Aayushi Bansal (MEC2021024)
MBA Students recommended for Award of Institute Medals (Academic Batch July 2021 - June 2023)		
 Bonny Thomas K (IMB2021012)	 Meghal Sethi IMB2021020	 Ayesha Shamim (IMB2021008)

Merit Certificate

	1st Rank	2nd Rank
B. Tech. – IT-BIn Program	 Ambika Singh Kaushik (IIB2019017)	 Gajjala Deepak (IIB2019024)
M. Tech. - BI Program	 Sudeep Mondal (MBI2021006)	 Sanjana Sharma (MBI2021004)
Dual Degree M. Tech. - Ph.D. Program	 Anubhav Shivhare (PCL2015002)	 Ajit Debnath (PMI2016003)

Endowment Medalists

Nobel Laureate Prof. Claude Cohen Tannoudji Gold Medal Prof. Tannoudji won Nobel Prize in Physics in in 1977 for development of methods of cool and trap atoms with laser light. He participated in the Science Conclave at IIITA in 2008. The award is given for academic excellence in Physics among the graduating female students for promoting Physics among girls.	 **Jyotsana Srivastava (IIT2019174)**
Professor Joelle Cohen Tannoudji Gold Medal Professor Joelle Cohen Tannoudji is an eminent Professor at the University Pierre et Marie Curie, Paris, France. The award was commemorated during her visit to India in Dec. 2008. The award is given to academically best graduating girl in M. Tech Bioinformatics for promoting Bioinformatics among girls.	 **Sanjana Sharma (MBI2021004)**
Dr. T. C. M. Pillay Memorial Gold Medal Dr. T. C. M. Pillay served as a University Professor in Metallurgy both in India and the U.S. To perpetuate his memory, his son Dr. Sashi K. Pillay, CIO, NASA John H. Glenn Research Center, Ohio instituted the award to be given academic excellence in the final year of B. Tech (IT).	 **Gajjala Deepak (IIB2019024)**
Prof. Dr. Ing. Matthias Kleiner Gold Medal Dr. Prof. Dr. Ing. Matthias Kleiner is the President of the Leibniz Association and Professor of Forming Technology at the Technical Umiversity of Dortmund. The award is given for overall performance including academic score, research publication, project work and involvement in other technical activities.	 **Garvit Suri (IIT2019057)**
Megha Goyal Memorial Gold Medal Late Ms. Megha Goyal was born on 26th March 1987 to Mr. Dinesh Chandra Goyal and Mrs. Manju Goyal at Dhanbad, Jharkhand. Since her early student life, characteristics of a meritorious student were exhibited by her. In the year 2003, Ms. Megha was enrolled in this Institute for the B. Tech. (Electronics and Communication Engineering) Degree Course. Ms. Megha displayed her prodigious talent in the Institute`s examinations and impressed her colleagues & teacher. Unfortunately, in the fourth semester, she suddenly passed away from an incurable disease, which left an irreparable loss to her family, Institute and the society. Megha Goyal Memorial Gold Medal has been instituted in her fond memory.	 **Muskan Deep Kaur Maini (IEC2019088)**
Shashank Verma Memorial Gold Medal Late Mr. Shashank Verma was born in 1985 in Lucknow to Mrs. & Mr. Rajiv Varma. He regularly acquired one of the top ranks in his class. He received an award and a certificate from the U.P. Government in the 'Young Scientists' Awards Ceremony in2004. HE was equally good in extra- curricular Institute in the year 2004, Tragically he passed away while pursuing the studies at this institute. The Shashank Verma Memorial Gold Medal has been instituted in the loving memory of Mr. Shashank Verma by his parents and grandparents for the student standing first in the second semester of B. Tech. IT program.	 **Aditya Aggarwal (IIT2019210)**

Scholarships

There are various scholarships/financial assistantships provided by the Central & State Government to the students of the Institute. A brief overview of some of the various Scholarships is as follows:

Sl. No.	Name of the Scholarship	Eligibility Criteria	Amount Re-imbursable (in Rs.)
1	**Post Matric Scholarships** (State Wise)	As mentioned in the guidelines provided by the State Government Authorities.	As decided by the State Government.
2	**Post Matric Scholarships Scheme for Minorities**	Scholarship will be awarded to the students who have secured not less than **50% marks** or equivalent grade in the previous final examination and the annual income of whose parents/guardian from all sources does not exceed **Rs. 2.00 Lakh**. 30% of scholarship will be earmarked for girl students.	Admission and tuition fees subject to a maximum ceiling of Rs. 3,000/- p.a. Maintainence allowance for 10 months @ Rs. 380/- p.m. for Hosteller and @ Rs. 230/- p.m. for Day Scholar.
3	**Merit Cum Means Scholarship for Professional and Technical Courses CS**	Scholarship will be awarded to the students who have secured not less than 50% marks or equivalent grade in the previous final examination. The annual income of the beneficiary/parent or guardian of beneficiary should not exceed Rs.2.50 lakh from all sources.	Full Course Fees Reimbursement for IIIT-Allahabad.
4	**Post-matric Scholarship for Persons with Disabilities**	The students having more than 40% disability (Certified by competent medical authority of the state Governments/UTs.) are only eligible. Scholarship will be paid to the students whose parents /guardians' income from all sources does not exceed Rs.2.50 Lakh per annum.	Fees Reimbursement upto 1.50 lakh p.a. Maintenance allowance p.m. Rs. 1,600/- for Hosteller and Rs. 750/- for Day Scholar. Disability allowance depending on type of disbility. Book Allowance Rs. 1,500/-
5	**Scholarships for Top Class Education for Students with Disabilities.**	Student with disability having not less than 40% disability. Total income from all sources of the candidate and/or his/her parents/guardians, shall not exceed Rs.8.00 Lakh per annum.	Reimbursement of tuition fees and non-refundable charges up to Rs. 2.00 lakh p.a. Maintenance Allowance Rs. 3,000/- p.m. for hostellers and Rs. 1,500/- p.m. for Day Scholars. Books & Stationery Rs. 5,000/- p.m. Reimbursement of expenses for purchase of a computer with accessories Rs. 45,000/- per awardee as a one-time grant for entire course. Reimbursement of expenses for purchase of Aids and Assistive Device Rs. 30,000/- per awardee as a one-time grant for entire course.

6	**Top Class Education Scheme for SC Students**	1. The annual family income ceiling from all sources for eligibility under the Scheme is Rs.8.00 lakh. 2. The SC students, who secure admission in the notified institutions, according to the norms prescribed by the respective institutions, are eligible for the scholarship under the scheme to the extent of the number of scholarships allocated to the institutions concerned. 3. The scholarship is merit based and the top ones in each institution (subject to their eligibility) to get. In case the number of students admitted exceeds the number of awards, then the scholarship will be restricted to the top ones in the inter-se merit list institute-wise. 4. Thirty percent (30%) of slots allotted to the Institution shall be reserved for eligible SC girl students as per their inter-se merit. In the absence of sufficient number of girl students, the slots may be transferred to eligible boy students as per their inter-se merit.	1. Full tuition fee and other non-refundable charges. 2. Academic Allowance - Rs. 86,000/- for 1st Year Rs. 41,000/- for 2nd, 3rd & 4th Year
7	**National Fellowship& Scholarship for Higher Education of Scheduled Tribe Students**	1. The total family income of the student from all sources should not exceed Rs. 6.00 lakh per annum. 2. Only those Scheduled Tribe students who have secured admission in notified Institutions will be eligible for the scholarship.	1. Full amount of tuition fee and other non-refundable dues in respect of Government/Government-funded institutions are paid. 2. Books and stationery @ Rs. 5,000/- per annum per student 3. Stipend @ Rs. 3,000/- p.m. (Rs. 36,000/- per annum) 4. Computer and Accessories @ Rs. 45,000/- One Time Grant
8	**Central Sector Scheme of Scholarships for College and University Students**	Students who are above 80 percentiles of successful candidates in the relevant stream for a particular Board of Examination, in class XII of 10+2 pattern or equivalent and not belonging to the creamy layer. Scholarship will be paid only to those students whose parent's/guardian's income from all sources does not exceed Rs.4.5 Lakh p.a.	Rs.12,000/- p.a. for 1st, 2nd and 3rd year Rs. 20,000/- in 4th year
9	**Institute Scholarships**		

	(a)	Merit-cum-Means Scholarship	1. The cumulative average of SGPI of two semesters only, per year, respectively should be equal to or above 8.50. 2. Parental Income should be less than Rs. 5.00 lakh p.a. 3. Total number of beneficiaries is limited to 3% of the total strength in each individual program/stream/department.	Rs. 36,000/- p.a.
	(b)	Merit Incentive Scholarship	1. The cumulative average of SGPI of two semesters only, per year, respectively should be equal to or above 9.00. 2. 2% (Top Rank Holders) of the Total Strength, provided the Total Strength is above 40, in each individual program/stream/department will be awarded with Merit Incentive Award.	Rs. 36,000/- p.a.
10	**Department Scholarships**		The scholarships provided by the employer of the parents of the students.	As per their norms.

* The details given are subject to change and can directly be checked on the respective portal again.

Placement Data-Campus Recruitment in 2022 -2023

B. Tech.

Company	No. of Students Placed	Company	No. of Students Placed	Company	No. of Students Placed
Adani	2	Goldman Sachs	2	Pine Labs	2
Adobe	1	Google	17	Porter	5
AiDash	3	Graviton	4	Postman	7
Airtel Payments Bank	4	Headout	1	PwC	2
Amazon	1	HeroFinCorp	1	Qualcomm	2
Amnic	2	HevoData	2	Quicksell	1
AppDynamics	5	Hotstar	5	Ripik	2
Apple	4	Intuit	3	Rippling	5
Arcesium	2	Jio	42	Salesforce	7
Arista Networks	1	Jio Platforms	22	SAP Labs	4
Atlassian	6	Juniper Networks	5	Scaler	2
Attentive	1	Karza	1	Schrodinger	4
Carl Zeiss	1	KreditBee	6	Slice	2
Chalo	5	LambdaTest	1	Spinny	2
Chegg	1	Mathworks	2	Sprinklr	14
Cogoport	1	Media.net	2	SRIB	1
Confluent	2	Metroguild	1	Synaptic	4

Couture AI	2	Micron	1	Synopsis	1
CRED	4	myHQ (Anarock)	3	Tekion	12
CredAble	2	Navi	8	Traceable AI	6
Cure.fit	2	Nurture.Farm	1	Trifacta	5
Dealshare	3	Nutanix	1	Urban Company	8
Deutsche Bank	6	NXP	1	Visa	3
Edelweiss	1	Observe AI	3	Vyapar	5
Edfora	4	Oracle	24	Walmart	6
Flipkart	5	Paytm	4	Winzo	2
Gameskraft	2	PayU	6	Zomato	1
GoKwik	1	PhonePe	10	Zuora	4

M. Tech.

Company	No. of Students Placed	Company	No. of Students Placed	Company	No. of Students Placed
Browserstack	1	Karza Technologies	3	Srib	1
Adani group	7	Kredit bee	11	strand life science	1
ARM	1	Mathworks	2	SubexAI	1
Axtria	6	Merkle Science	1	Synopsys	8
Bidgely	1	Micron technology	2	Tata Consultancy Services	1
Carl Zeiss	3	Natwest	4	TCS R&I Labs	1
Citibank	5	NAVI	4	Tesco	1
Cogoport	3	NXP Semiconductor	5	UC	1
DELL	3	Oracle	5	Undostres	1
Edelweiss	1	Pactera Edge	1	Verse	1
Edfora	1	PayNearby	1	VISA	4
Eigenlytics	1	PayU	1	VYMO	4
EXL Services	9	Porter	2	Walmart	2
FifthTry	1	PwC	5	Western Digital	2
Hero fincorp	7	Qualcomm	7	ZF	3
HSBC	4	Silicon labs	1		
Jumbotail	1	Societe Generale	1		

Placement & Higher Studies Data for previous 3 years

UG [4 years Program(s)]

Academic Year	No. of first year students intake in the year	No. of first year students admitted in the year	Academic Year	No. of students graduating in minimum stipulated time	No. of students placed	Median Salary of placed graduates (Amount in Rs.)	No. of students selected for Higher studies
2016-17	231	222	2019-20	211	184	19,00,000 (Nineteen lakh)	10
2017-18	231	226	2020-21	221	190	20,00,000 (Twenty lakh)	02
2018-19	310	277	2021-22	275	261	2800000 (Twenty-Eight lakh)	14

UG [5 years Program(s)]

Academic Year	No. of first year students intake in the year	No. of first year students admitted in the year	Academic year	No. of students graduating in minimum stipulated time	No. of students placed	Median Salary of placed graduates (Amount in Rs.)	No. of students selected for Higher studies
2015-16	76	71	2019-20	56	42	20,58,000 (Twenty lakh fifty eight thousand)	11
2016-17	76	70	2020-21	60	52	19,00,000 (Nineteen lakh)	05
2017-18	76	62	2021-22	62	58	28,50,000 (Twenty eight lakh fifty thousand)	04

PG [2 years Program(s)]

Academic Year	No. of first year students intake in the year	No. of first year students admitted in the year	Academic Year	No. of students graduating in minimum stipulated time	No. of students placed	Median Salary of placed graduates (Amount in Rs.)	No. of students selected for Higher studies
2018-19	140	113	2019-20	97	62	1150000 (Eleven lakh fifty thousand)	13
2019-20	158	134	2020-21	125	93	1150000 (Eleven lakh fifty thousand)	13
2020-21	195	144	2021-22	141	137	1675000 (Sixteen lakh seventy five Thousand	04

PG-Integrated [5 years Program(s)]

Academic Year	No. of first year students intake in the year	No. of first year students admitted in the year	Academic Year	No. of students graduating in minimum stipulated time	No. of students placed	Median Salary of placed graduates (Amount in Rs.)	No. of students selected for Higher studies
2015-16	36	26	2019-20	26	02	9,45,700 (Nine lakh forty five thousand seven hundred	24
2016-17	36	25	2020-21	20	01	1150000 (Eleven lakh fifty thousand)	19
2017-18	36	21	2021-22	21	01	49,44,600 (Forty nine lakh forty four thousand six hundred	20

5

Departments

- Department of Information Technology
- Department of Electronics and Communication Engineering
- Department of Applied Sciences
- Department of Management Studies

Department of Information Technology

(https://it.iiita.ac.in)

Objective

The objectives of the programmes offered by the Department of Information Technology are:

- To equip students with state of art knowledge and skill in Information Technology and to produce engineers with outstanding ability
- To create future leaders of IT industry and profession
- To add to the existing intellectual pool of young minds to meet the growing demands of the nation in Information Technology

The programmes aim to achive these objectives by moulding young talents as engineers who can recognize and solve problems in different technical and social domains. The main emphasis of the programmes is to instill inquisitive thinking and curiosity with a sense of service to the nation and society at large; and with a capacity to recognize the need for a change and drive the change to make the world a better place to live.

Courses and Specializations

The main aim of undergraduate education at IIIT Allahabad is to enable students to face the wide-ranging changes taking place in the fields of information technology with confidence. This includes undertaking design, development and entrepreneurial activities, and higher studies in their chosen or allied interdisciplinary fields of study. The courses offered by the Department of Information Technology are:

B. Tech

• Information Technology	• Information Technology - Business Informatics

M.Tech

• Information Technology	• Machine Learning and Intelligent Systems (MLIS)
• Robotics and Machine Intelligence (RMI)	• Human Computer Interaction (HCI)
• Data Engineering (DE)	• Software Engineering (SE)
• Wireless Communication and Computing (WCC)	• Cyber Laws and Information Security (CLIS)

Ph.D. (IT) in following subjects

• Soft computing	• Artificial Intelligence
• Robotics	• Computer Vision
• Remote Sensing	• Image Processing
• Multimedia	• Graphics & Animation
• Data Mining	• Wireless and Mobile Networks
• Service Oriented Architecture	• Software Engineering and Theoretical Computer Science
• Distibuted and High-Performance Computing	• Cryptography
• Computer Forensic	• Biometrics & Pattern Recognition
• Information System Audit	• Cyber Crimes
• Security Architecture & Standards	• Machine Learning and Deep Learning

Lab Facilities

• Robotics Lab	• SILP/Cognitive Computing Center
• Machine Learning and Optimization Lab	• Interactive Technologies & Multimedia Lab
• Data Analytics Lab	• Network Security & Cryptography Lab
• Wireless Sensor Network Lab	• Computer Vision & Biometric Lab
• System Lab	• Deep Learning lab
• Advanced Image & Data Science Lab	• Software Engineering Research Lab
• Big Data Analytic Lab	• Digital forensics and cyber security lab
• Wireless Network and IOT Research Lab	• Indo-Norway Collaboration Lab

Achievements

- IIITA secured the 1st position at the ACM ICPC Asia Amritapuri Site Online Round.
- TATA Consultancy Service Limited Presented the Best Student Award to Priyansh Goel of IIITA.
- Award of the Best Students Branch to IIIT Allahabad IEEE Chapter.

Faculty Members

Sl.	Name	Designation	Sl.	Name	Designation
1	Prof. Gora Chand Nandi	Professor	2	Prof. Om Prakash Vyas	Professor
3	Prof. Uma Shanker Tiwary	Professor	4	Prof. Anupam Agrawal	Professor
5	Prof. Shekhar Verma	Professor	6	Prof. Pavan Chakraborty	Professor
7	Prof. Vrijendra Singh	Professor	8	Dr. Vijay Kumar Chaurasiya	Associate Professor
9	Dr. Manish Kumar	Associate Professor	10	Dr. Satish Kumar Singh	Associate Professor
11	Dr. Sonali Agarwal	Associate Professor	12	Dr. Krishna Pratap Singh	Associate Professor
13	Dr. S. Venkatesan	Associate Professor	14	Dr. Abhishek Vaish	Assistant Professor
15	Dr. Rahul Kala	Assistant Professor	16	Dr. Mohammed Javed	Assistant Professor
17	Dr. Triloki Pant	Assistant Professor	18	Dr. Bibhas Ghosal	Assistant Professor
19	Dr. Navjot Singh	Assistant Professor	20	Dr. Muneendra Ojha	Assistant Professor
21	Dr. Shiv Ram Dubey	Assistant Professor	22	Dr. Soumyadev Maity	Assistant Professor (Contract)
23	Dr. Anshu S. Anand	Assistant Professor (Contract)	24	Dr. Anjali Gautam	Assistant Professor (Contract)
25	Dr. Nabajyoti Mazumdar	Assistant Professor (Contract)			

Concluding Remarks

The department of Information Technology is continuously striving to provide the highest quality of teaching and research by facilitating the faculty members associated with the department. The department is rigorously improving the quality of teaching and research by continuous feedback from the faculty and students and making strategies for operating amidst the existent constraints. The department has made a big progress all around in the areas of teaching, learning, research and development and outreach activities etc. that is clearly visible by the placement statistics of the students and further by the plethora of achievements of the students and faculty.

Prof. Pavan Chakraborty
Head, Department of Information Technology

Department of Electronics and Communication Engineering

(https://ece.iiita.ac.in)

About the Department

The department of Electronics and Communication Engineering at Indian Institute of Information Technology, Allahabad was established in 2006 with a vision towards interdisciplinary research with other departments of the Institute. The undergraduate and postgraduate students of ECE students get good exposure in the state-of-the-art technologies with the latest tools and technology design kits. The department offers B.Tech.(ECE), M.Tech.(ECE) with Microelectronics/Communication Engineering specialization, and Ph.D. programs as well. The department provides a healthy environment to the Students and Faculties to carry out their collaborative research in the specializations of Microelectronics, VLSI Design, Signal Processing, Microwave Engineering, Wireless Communication, Photonics, Instrumentation & Control, computational nanoelectronics, etc.

Faculty Recruitment

The department is actively involved to attract quality faculties, and for this, selections through rolling advertisement have already been done by the department. This process is still going on to improve the teacher/student ratio. We have recruited 08 Faculties in the last few selection processes.

Administrative and Academic initiatives:

In addition to the regular entry at the Ph.D. level, the department of ECE has encouraged taking Ph.D. students under Vishvesvaraya PhD scheme also for availing external funding and expanding the strength research scholar. The department has organized workshops in VLSI design, Thin film Transistors, PCB Design, Wireless Communication, 5G and IOT to increase awareness and to add more manpower in the related areas. The department of ECE has collaborated with United Microelectronics Corporation (UMC), High-Performance Microelectronics (IHP) and Semiconductor Laboratory (SCL) for receiving support for chip fabrication. The department has encouraged the students to participate in design contests and national conferences to improve the quality of the UG/PG projects. The training and placement cell has actively participated in overall placement activities, and through Industry-Institute partnership, 100% of the registered students have been placed in national and multinational companies. A team of faculty members are continuously improving the website with all updates of course curriculum, research areas, publications, projects etc. The lab staffs have been recruited to support the proper functioning of the laboratory. Some of the UG and PG courses have been streamlined based on the need of R&D and applications in industries. The placements have been improved with the academic initiatives through UG project and skill development courses. Experts from academia and industry have been invited in the workshop and to teach courses to the students to bridge the gap between Industry and Academia. The departmental undergraduate committee (DUGC) and departmental postgraduate committee (DPGC) have addressed the issues of UG and PG students. CCLCAA Scheme has been incorporated into the curriculum structure from the entry batch of 2018 for UG and PG both.

Research Development:

The faculty members of the department have published over 40 Journal papers and 20 Conference papers in reputed peer-reviewed International/National Journals and Conferences during 2021-22. Currently, 30 Ph.D. and 52 M.Tech. students are working in the department of ECE. The breadth of the research area in ECE department is expanded with the help of the initiatives of Faculty members. The prototypes of several products such as heart rate sensors, object tracking systems and drug delivery systems have been developed.

Training and Placements:

The students of B.Tech.(ECE) and M.Tech.(ECE) had registered for the campus placements which were opened in July-August 2021. The departmental placement coordinator and institute's TPO along with the student placement team interacted with various companies and their HR teams. Companies were invited from July-2021 onwards to fill up online "Job Notifications Forms" which are open to students registered for placements from early August. Pre-placement talks by companies provided an avenue for interaction and familiarization of students with recruiting organizations and their work profiles as a run up to formal placements. The recruiters appreciated the knowledge and training of our students. A majority of our recruiters held their faith in our students' abilities and came to recruit in large numbers. The placement activities during the academic year 2021-22 for B.Tech./M.Tech.(ECE) students were conducted with the highest CTC of 60 Lac/annum and average CTC of 26.52 Lac/annum for UG, whereas the highest CTC of 35 Lac/annum and average CTC of 26.52 Lac/annum for PG.

Faculty Members

Sl.	Name	Designation	Sl.	Name	Designation
1	Prof. Neetesh Purohit	Professor	2	Prof. Manish Goswami	Professor
3	Dr. Sanjai Singh	Associate Professor	4	Dr. Rajat Kumar Singh	Associate Professor
5	Dr. Sitangshu Bhattacharya	Assistant Professor	6	Dr. Prasanna K. Mishra	Assistant Professor
7	Dr. Pooja Mishra	Assistant Professor	8	Dr. Suneel Yadav	Assistant Professor
9	Dr. Sunny	Assistant Professor	10	Dr. Ashutosh K. Singh	Assistant Professor
11	Dr. Rekha Verma	Assistant Professor (Contract)	12	Dr. Amar Nath Yadav	Assistant Professor (Contract)
13	Dr. Kavindra Kandpal	Assistant Professor (Contract)	14	Dr. Himanshu Maurya	Assistant Professor (Contract)
15	Dr. Ramesh K. Bhukya	Assistant Professor (Contract)	16	Dr. Shanti Chandra	Assistant Professor (Contract)
17	Dr. Rahul H. Meshram	Assistant Professor (Contract)	18	Dr. Surya Prakash	Assistant Professor (Contract)
19	Dr. B. Santhibhushan	Assistant Professor (Contract)	20	Dr. Radhika Gour	Assistant Professor (Contract)

Concluding Remarks:

The department has provided a healthy environment to the students, staff and faculty members for quality education and research. Under the leadership of the Director, IIIT-A, the department has attained significant improvement in curriculum, research, administration and student's placement. Collaboration with other pioneer institutes and industry was also initiated. For a creative learning environment, minor/major and tutorial-enabled academic credit system has been initiated by the department. Under the digital India program, the department has initiated certain steps in terms of prototype development, controlled facility for autonomous operation and academic assessment.

Dr. Sanjai Singh
Head, Department of Electronics and Communication Engineering

Department of Applied Sciences

(https:/as.iiita.ac.in)

About the Department

The Department of Applied sciences (DAS) is an integral component of IIIT Allahabad's academic ecosystem. The DAS runs master programs, VIZ., Bioinformatics (BI) in Biomedical Engineering (BME), and in data science. It also offers Ph.D. programs in BI & BME, Computational Biology, Mathematics & Statistics, and Physics. The DAS also contributes to various core courses running in other departments. Further, with to cater to the current focus of the Government of India and its funding agencies on innovations in Bioinformatics, Data sciences, Telemedicine, Telehealth, and ancillary areas, DAS is doing various multidisciplinary research works in said above areas. With multiple funded projects, consultancy, and industry-backed projects; DAS is currently developing high-performance computational biology facilities to establish itself as an apex unit at IIIT-Allahabad.

Administrative and Academic initiatives

The Department of Applied sciences offers postgraduate (M. Tech.) and doctoral (PhD) programs. The department intends to contribute to society through these highly qualified students, who aim to specialize in frontier areas of research and development. DAS is involved in several collaborative and interdisciplinary works.

Currently the department of Applied Sciences doing research work in the following areas-

• Spintronic and Magnetic Materials	• Device fabrications (Diode/MOSFET/OFET)
• Photonic Crystals and Meta Materials	• Structural Biology
• BioMEMS and nanotechnology	• Bio-Nanotechnology
• Signal processing	• Photoacoustic imaging and tomography
• Data Science and its applications	• Commutative Algebra
• Topological Graph theory	• Number theory
• Functional Analysis	• Survival Analysis
• Algorithms & Tools Department	• Systems Modeling & Simulation
• Genomic Big Data Analytics	• Mathematical & Computational Physics
• Gravitational waves & Astronomy	• Fractal Geometry
• Approximation Theory	• Experimental Condensed Matter Physics
• Electro ceramics	

Faculty Members

Sl.	Name	Designation	Sl.	Name	Designation
1	Prof. Tapobrata Lahiri	Professor	2	Prof. Pritish K. Varadwaj	Professor
3	Dr. Ashutosh Mishra	Associate Professor	4	Dr. Pramod Kumar	Associate Professor
5	Dr. Akhilesh Tiwari	Associate Professor	6	Dr. Nidhi Mishra	Associate Professor
7	Dr. Amit Prabhakar	Associate Professor	8	Dr. Ratan Kumar Saha	Associate Professor
9	Dr. Sangeeta Singh	Assistant Professor	10	Dr. Sintu K. Samanta	Assistant Professor

11	Dr. Sanjeev B. S.	Assistant Professor	12	Dr. Abdullah Bin Abu Baker	Assistant Professor
13	Dr. Srijit Bhattacharjee	Assistant Professor	14	Dr. Sumit K. Upadhyay	Assistant Professor
15	Dr. Amaresh K. Sahoo	Assistant Professor	16	Dr. Anand K. Tiwari	Assistant Professor
17	Dr. Seema Kushwaha	Assistant Professor (Contract)	18	Dr. Savitri Joshi	Assistant Professor (Contract)
19	Dr. Saurabh Verma	Assistant Professor (Contract)	20	Dr. Upendra Kumar	Assistant Professor (Contract)

Dr. Ratan Kumar Saha

Head, Department of Applied Sciences

Department of Management Studies

(https://mba.iiita.ac.in)

General Information

The department of Management studies came into existence in 2004. It was constituted with the philosophy of running and managing the programs with a focus on Management & Technology. It aims at propelling academic excellence through innovative pedagogy of blended learning and inculcating all round self-development by creativity, knowledge exchange, empowerment and enrichment of students and faculty members.

The Department of Management Studies has consistently endeavoured to be updated to problems being faced by Industry and solutions collaboratively achieved through Industry and Academia Interactions.

The programmes offered have a unique blend for UG/PG/PhD students. At the Undergraduate level Department offers various course in sister Departments (IT/ECE). It gives unique opportunity of learning to participating individuals harnessing their technical skill and augmenting them with managerial perspective.

The Departmental flagship programme, MBA, is a uniquely tailored curriculum which creates an insightful blend of managerial perspective with technology interplay in its core. It also has a good number of research scholars working in different functional areas of management.

Apart from above, the Department has also taken initiative for starting the programmes for working professionals. The department offers MBA (Working Professional) course at PG level and PhD (Working Professional) course. These programmes are intended to augment the industry-academia interface.

The Department also coordinates and offers Add-on courses, under new CCLCAA ordinance, from the first semester of study to expose students to diverse areas including areas which cannot be a part of their regular curricula like;

- Foreign Languages
- Sanskrit
- Sports
- Yoga
- Courses on Ethics and Value
- Programming etc.

The Department of Management Studies has taken several initiatives to align its courses to the new assessment system and well suited as per the Industry Requirement. All the courses including electives have been redesigned in the LTP format to ensure tutorial/practical aspects are embedded in every course.

Faculty Members

Sl.	Name	Designation	Sl.	Name	Designation
1	Prof. Vijaishri Tewari	Professor	2	Prof. Ranjit Singh	Professor
3	Prof. Madhvendra Misra	Professor	4	Dr. Anurika Vaish	Associate Professor
5	Dr. Shailendra Kumar	Associate Professor	6	Dr. Pragya Singh	Assistant Professor
7	Dr. Vineet Tiwari	Assistant Professor	8	Dr. Utkarsh Goel	Assistant Professor
9	Dr. Saurabh Mishra	Assistant Professor	10	Dr. Shashikant Rai	Assistant Professor
11	Dr. Sudipta Das	Assistant Professor			

Research Snapshot at Department of Management Studies

In the past one year a total of 53 publications in various International and National Journals of repute were achieved by the faculty members. Apart from this, 34 **p**apers were also published/presented in Conference, Seminars & Invited Talks. **06** Books/Book Chapters were published during last year.

A total of five PhD's was awarded to the students.

Sponsored Research Projects

- ICSSR Sponsored Research Project titled **"Social Media Presence and Information & Communication Technology (ICT) Adoption Status for improving competitiveness in MSME Sector: A Study of U.P"** sanctioned on March, 2022. by Dr. Shailendra Kumar, Dr. Utkarsh Goel & Prof. Vijayshri Tewari
- DST Project - **"Science Technology and Innovation Hub in Information and Communication Technology (ICT) at Indian Institute of Information Technology Allahabad (IIITA), Prayagraj Block, Prayagraj District, Uttar Pradesh State"** on March, 2022. by Dr. Vineet Tiwari & Dr. Sudipta Das
- DST Project – **"Social awareness for COVID-19 through AI based mobile app". by** Dr. Shashikant Rai

Copyrights/Patents

- Literary work "मेरी पहचान अभी बाकी हैं" (Copyright)- Prof. Ranjit Singh
- Patent granted on November 2021 for our research work titled "SOCIAL NETWORKING MOOD RECOGNITION ALGORITHM FOR CONFLICT DETECTION AND MANAGEMENT OF EDUCATIONAL INSTITUTIONS" – Dr. Anurika Vaish
- Title: Psychometric scale for measuring intellectual and emotional health during COVID-19 pandemic Registration no.: L-116203/2022 (Copyright)- Dr. Parikshit Joshi

Guest Lectures Organized

1. Dr. Hemant Kumar Yadav on the Topic: "Achieving Professional Excellence in IT Companies"
2. Mr. Sanjay Chandra (Business Intelligence Analyst – Briefing of Data Analytics) on the Topic: Skills required for working in the field of Data Analytics
3. Mr. Alok Gupta, Consultant, System Architect and Software Developer on the Title: Role of Managers in System Designing - Industry 4.0 perspective
4. Dr. Anu Singh, Sr. Manager, Fiserv India Pvt. Ltd. On the Topic: Competency based interview
5. Dr. G. Jawahar, Executive Director HR at Power Finance Corporation Ltd. On the Topic: Understanding the criticalities of Job Interview – From the perspective of HR

Lab Development:

1) Business simulation and decision-making lab (BSDML) has been sanctioned and is currently under development (Department of Management Studies, IIIT Allahabad) by Dr. Saurabh Mishra.
2) A new Lab on "Supply Chain and Sustainability Research Lab" has been sanctioned and is under development by Dr. Vineet Tiwari.

Dr. Shailendra Kumar
Head, Department of Management Studies

6

Faculty Profiles



1. Prof. Gora Chand Nandi

Designation: Professor (HAG)
Date of Joining: 10.06.2001
Department: Information Technology
Research Interests: Soft computing, Machine Learning, Robotics and industrial automation, Deep Learning, Computer controlled systems, Humanoid robots.

Publication

Type	Paper / Chapter Title	Author(s)	Book/Journal Title	Vol/ Issue	Year	DoI
Book Chapter	Predicting Personalized Quality of Life of an Intellectually Disabled Person Utilizing Machine Learning	Gaurav Kumar, G. C. Nandi et.al	Artificial Intelligence Research and Development	356	October 2022	10.3233/FAIA220327
Journal	Generative model based robotic grasp pose prediction with limited dataset	Shukla, P., Pramanik, N., Mehta, Nandi, G. C.	Applied Intelligence	52 / 9952–9966	January 2022	10.1007/s10489-021-03011-z
Journal	Generating quality grasp rectangle using Pix2Pix GAN for intelligent robot grasping	Kushwaha, V., Shukla, P. & Nandi, G.C	Machine Vision and Applications	34/15	2023	10.1007/s00138-022-01362-2
Journal	Implicit Regularization of a Deep Augmented Neural Network Model for Human Motion Prediction	Gaurav K. Yadav, M.A. Nasser, H.A. Rashwan, D. Puig, G. C. Nandi	Applied Intelligence	53/14	2023	10.1007/s10489-022-04419-x
Journal	Effective ML-based quality of life prediction approach for dependent people in guardianship entities	G.K. Yadav, B.M. Vidales, H.A. Rashwan, J. Oliver, Domenec Puig, G. C. Nandi, M.A. Nasser	Alexandria Engineering Journal	65	2022	10.1016/j.aej.2022.10.028
Journal	Development of human motion prediction strategy using inception residual block	Gupta, S., Yadav, G.K. & Nandi, G.C.	Multimedia Tools and Applications	82	2023	10.1007/s11042-023-14440-y
Journal	Efficient deep learning-based semantic mapping approach using monocular vision for resource-limited mobile robots	A Singh, R Narula, HA Rashwan, M Abdel-Nasser, D Puig, GC Nandi	Neural Computing and Applications	34/4	2022	10.1007/s00521-022-07273-7
Journal	Reliable Scene Recognition Approach for Mobile Robots with Limited Resources Based on Deep Learning and Neuro-Fuzzy Inference	A Singh, P Pandey, D Puig, GC Nandi, M Abdel-Nasser	Traitement du Signal	39/4	2022	
Journal	Optimized, robust, real-time, emotion prediction for human-robot interactions using deep learning	Shruti Jaiswal, G.C. Nandi	Multimedia tools and applications	82	2022	10.1007/s11042-022-12794-3

Average Impact Factor:

a) International Journal of Service Robotics (SCI, IF: 3.4)	b) Machine Vision and Applications, (SCI, IF: 2.9)
d) Neural Computing and Applications (SCI, IF: 5.102)	e) Traitement du Signal (SCI, IF: 2.299)
f) Alexandria Engineering Journal (SCI, IF: 6.626)	g) Applied Intelligence, (SCI, IF: 5.086)
h) Social Indicators Research, (SSCI, IF: 3.024)	i) Multimedia tools and applications, (SCI, IF: 2.396)

Research papers published in conference proceedings (as a full paper):

1. Synthesis of Human Inspired Intelligent Fonts using Conditional-DCGAN, Ranjith Kalingeri, Vandana Kushwaha, G C Nandi, Spinger conference proceedings of International Conference on Computer Vision and Machine Intelligence (CVMI), 12-13 August 2022 • IIIT Allahabad, Prayagraj, INDIA, Hybrid Mode.
2. Estimating Depth Map of an RGB image using Encoders and Decoders, A. Gupta, V. Kushwaha, R. Kala and G. C. Nandi, "Estimating Depth Map of an RGB image using Encoders and Decoders," 2022 IEEE 9th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON), Prayagraj, India, 2022, pp. 1-7, doi: 10.1109/UPCON56432.2022.9986392.
3. Meme Detection for Sentiment Analysis and Human-Robot Interactions Using Multiple Modes, V. Sharma, V. Kushwaha, S. Jaiswal and G. C. Nandi, "Meme Detection for Sentiment Analysis and Human Robot Interactions Using Multiple Modes," 2022 IEEE 9th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON), Prayagraj, India, 2022, pp. 1-6, doi: 10.1109/UPCON56432.2022.9986453.
4. Simulation Aided Anticipatory Congestion Avoidance for Warehouses, H. Bhati, G. Suri, R. Kala and G. C. Nandi, "Simulation Aided Anticipatory Congestion Avoidance for Warehouses," 2022 IEEE 18th International Conference on Automation Science and Engineering (CASE), Mexico City, Mexico, 2022, pp. 2062-2067, doi: 10.1109/CASE49997.2022.9926624.
5. Group-Aware Human Trajectory Prediction, I. Sethi et al., "Group-Aware Human Trajectory Prediction," 2022 IEEE 6th Conference on Information and Communication Technology (CICT), Gwalior, India, 2022, pp. 1-5, doi: 10.1109/CICT56698.2022.9997980.
6. Gaurav Kumar Yadav, B.M. Vidales, Sara Duenas, M.A. Nasser, H.A. Rashwan, Domenec ˜Puig, G. C. Nandi, Predicting Personalized Quality of Life of an Intellectually Disabled Person Utilizing Machine Learning, is published in 24th International Conference of the Catalan Association for Artificial Intelligence (CCIA 2022) (Frontiers in Artificial Intelligence and Applications 2022).
7. Gaurav Kumar Yadav, B.M. Vidales, H.A. Rashwan, Joan Oliver, M.A. Nasser, Domenec Puig, G. C. Nandi, Predicting the Quality-of-Life Index Value for determining the Requirement of Support Needs for Intellectually Disabled Individual using Machine Learning Methods", is submitted in IEEE Bangalore Humanitarian Technology Conference 2023.

Seminars and invited talks presented:

a) Delivered Online lectures as Expert, for Short Term Training and Certification Course in AI & ML conducted by Defence Institute for Advanced Technology, Pune.

Title: Robotics Research using Machine learning and Deep Learning, Organization: DIAT, Pune, Date: 1st September, 2022.

b) Delivered an expert lecture in the Computer Science and Engineering Department, DIAT Pune, 9-09-2022, Friday.

c) Delivered an expert lecture on 2nd January, 2023 on behalf of the I-DPAT Hub Foundation, at IIT (BHU) Varanasi on Challenges of developing Collaborative Robotics framework - the present state of the art.

d) Took part in 7 joint meetings with a number of faculty members of Electrical and Computer Engineering and Computer Science department of University of Illinois at Urbana Champaign, USA, during February 11-18, 2023 as a PI of US NSF - TIH funded joint project execution

Conferences attended outside IIIT Allahabad:

- Delivered a lightening talk on "Safe Human-aware Robot Navigation in Warehouses" and took part in project demonstration during NSF/TIH PI Meeting and Workshop for Indo-US Research Collaboration during May 22-23, 2023, Baltimore, Maryland, USA.
- Took part in several technical discussions at the University of Illinois Urbana Champaign USA during February 11-18, 2023.

Work done in project undertaken in the Institute:

- Intelligent Robot Grasping in a warehouse environment using Cobotics Framework

Projects/Grants/Consultancy:

Title of the Project/ Grant/ Consultancy	Duration	Start Date	End Date	Role	Funding Agency /Sponsorer	Grant Number	Status	Amount
Intelligent grasp manipulation technology development in a cobotics framework for complex manipulation in the warehouse environment.	3 years	Oct 2020	Oct 2023	PI	IHFC		Ongoing	1.8 Cr.
Safe Human-aware Robot Navigation in Warehouses	One year	Aug 2022	Aug 2023	PI	US NSF-IHFC DST	NSFunder 2143435	Ongoing	0.5 Cr. (.06 Mln. US$)
Planning Human-Robot Interactions under DNN Module	Two years	Oct 2022 / Jul 2023	Jul 2025	Co-PI/PI	DST	DST/INT/DAAD/P-03/2022(G)	Ongoing	0.122 Cr.
Capacity building in the area of Robotics	3 years				EU-IRAS-HUB		Ongoing	0.739 Cr.

Ongoing Projects:

- Awarded a grant of Rs 1.8crore (0.25 million US $) by I-Hub Foundation for Cobotics (IHFC), an organization set up by the National Mission on Interdisciplinary Cyber Physical Systems (NM-ICPS), DST, Govt. of India, October, 2020 (as Principal Investigator).
- Project title: Intelligent grasp manipulation technology development in a cobotics framework for complex manipulation in the warehouse environment.

  Awarded US NSF-IHFC DST collaborative grant worth Rs. 50 lacs (0.06 million US $) in collaboration with the University of Illinois Urbana Champaign. (as Principal Investigator).

- Project title: Safe Human-aware Robot Navigation in Warehouses. Sanction date: August, 2022.
- Awarded under Indo-German project call 2021, DAAD- DST collaborative project on the topic " Planning Human-Robot interactions with Large Language Models) ", TPN-73769 with Bielefeld University, Germany. Sanction date: October, 2022.
- Indo-European Union (EU) consortium where our proposal recently bagged a joint collaborative project amounting to €797,785 with IIIT-D, IIIT-Hyderabad and few other reputed Universities and Industries.

Training programmes organized:

- Summer internship-May-July 2022
- Winter internship, December 2022

Other Activities:

a. Technology Developed

- Grasp Rectangle generation for table top object- TRL -level-4 at present.
- Crowd Navigation using mobile robot- TRL -level -4 at present.

b. Industry visited and visits to other Institutes for research

- IIT-BHU
- UIUC, USA

c. Patents

- Title: A warehouse management system using smart mobile robot pickers
  Patent Application filing No 202311009245.

d. Awards and Honors

The following externally funded projects have been awarded where I am the PI

- I was offered a unique recognition to act as a Grand Project Coordinator (GPC) by Technology Innovation Hub, IHFC -IIT-Delhi an initiative by DST, Govt of India at the National Level in the area of Human-Robot-Interaction, October 11, 2021.
- The Center of Intelligent Robotics (CIR) where I am acting as a Head, is now a part of the prestigious Indo-European Union (EU) consortium that recently bagged a joint collaborative project amounting to €797,785 with IIIT-D, IIIT-Hyderabad and few other reputed Universities and Industries.
- August 2022, the CIR also bagged the prestigious NSF-IHFC collaborative grant worth Rs. 50 lacs in collaboration with the University of Illinois Urbana Champaign.
- This adds up to the grand project sponsored by IHFC, IIT Delhi and DST running at the center worth Rs. 1.8 crores for which we are about to complete the first year.
- As PI the following DST-DAAD project have been awarded, 2022.

  DAAD-DST Indo-German Grant with Bielefeld University in the area of Planning Human-Robot interactions with learnable DNN modules

Any other important activity not specified above.

- Participated as an expert in the DST-PAC Meeting of Mechanical, Manufacturing, Robotics Group, 20-22 December, 2023 (online mode)

- Took part as an expert in two selection committees
- Too part in the IHFC Grand Project Kick-off Meeting, organized by IIT-Delhi
- Participating and delivering talk in the prestigious DST-NSF Joint Research and Development Projects Kick-off Workshop Organized by IHFC, TIH IIT Delhi and inaugurated by the director of NSF, USA August 8- 9, 2022.
- Visited University of Illinois Urbana Champaign for research interactions with the scientists and research scholars there

Some photographs of the important events



Testing the driving simulator developed by Robotics Lab of UIUC, USA (Feb-11-18, 2023).



Interacting with an experimental multifingured robot hand testbed in the Robotics Laboratory of my NSF-US -TIH (DST) PI partner KATHERINE DRIGGS-CAMPBELL at the Univ of Illinois Urbana Champaign, USA, Feb16,2023.



2. Prof. Om Prakash Vyas

Designation: Professor

Date of Joining: 01.09.2009

Department: Information Technology

Research Interests: Data Mining and Business Intelligence, Mobile Ad-hoc Networks and Wireless Sensor networks, Future Internet, Software Engineering

Publication

Type	Paper Title	Author(s)	Journal Title	Year
Journal	Ontology-based detection and identification of complex event of illegal parking using SPARQL and description logic queries	Patel, AS; Tiwari, V; Ojha, M; Vyas, OP	Chaos Solitons Fractals	2023
Journal	Distributed hyperparameter optimization based multivariate time series forecasting	Singh, T; Sinha, A; Singh, S; Vyas, OP; Kumar, M	Multimedia Tools Applications	2023
Journal	An NLP-guided ontology development and refinement approach to represent and query visual information	Patel, AS; Merlino, G; Puliafito, A; Vyas, R; Vyas, OP; Ojha, M; Tiwari, V	Expert Systems Applications	2023
Journal	Motion-compensated online object tracking for activity detection and crowd behavior analysis	Patel, AS; Vyas, R; Vyas, OP; Ojha, M; Tiwari, V	Visual Computing	2023
Journal	A study on video semantics; overview, challenges, and applications	Patel, AS; Vyas, R; Vyas, OP; Ojha, M	Multimedia Tools Applications	2022



3. Prof. Uma Shanker Tiwary

Designation: Professor

Date of Joining: 01.07.2002

Department: Information Technology

Research Interests: Image Processing, Computer Vision, Medical Image Processing, Pattern Recognition & Script Analysis, Digital Signal Processing, Speech and Language Processing, Wavelet Transform, Soft Computing & Fuzzy Logic, Neuro–computing and Soft-computers

Publication

Type	Paper Title	Author(s)	Journal Title	Year
Journal	Emotion Recognition Using Temporally Localized Emotional Events in EEG With Naturalistic Context: DENS# Dataset	Asif, M; Mishra, S; Vinodbhai, MT; Tiwary, US	IEEE Access	2023
Journal	Scene description with context information using dense-LSTM	Singh, V; Agrawal, P; Tiwary, US	Journal of Intelligent & Fuzzy Systems	2023
Journal	E-nose: a low-cost fruit ripeness monitoring system	Tyagi, P; Semwal, R; Sharma, A; Tiwary, US; Varadwaj, P	Journal of Agricultural Engineering	2023
Journal	Visual content generation from textual description using improved adversarial network	Singh, V; Tiwary, US	Multimedia Tools and Applications	2023
Journal	Dynamic Functional Connectivity of Emotion Processing in Beta Band with Naturalistic Emotion Stimuli	Mishra, S; Srinivasan, N; Tiwary, US	Brain Sciences	2022
Journal	Cardiac-Brain Dynamics Depend on Context Familiarity and Their Interaction Predicts Experience of Emotional Arousal	Mishra, S; Srinivasan, N; Tiwary, US	Brain Sciences	2022
Journal	Multi-attribute decision making application using hybridly modelled Gaussian Interval Type-2 Fuzzy sets with uncertain mean	Mishra, R; Malviya, S; Singh, S; Singh, V; Tiwary, US	Multimedia Tools and Applications	2023
Journal	Soft clustering and interval type-2 fuzzy set based inference strategy for IT personnel selection	Mishra, R; Malviya, S; Ghosh, RC; Tiwary, US	Journal of Intelligent & Fuzzy Systems	2022



4. Prof. Anupam Agrawal

Designation: Professor

Date of Joining: 01.11.2000

Department: Information Technology

Research Interests: Image & Vision Processing, Computer Graphics and Virtual Reality, Human-Computer Interaction, Machine Learning, Artificial Intelligence and Softcomputing, Remote Sensing, Biometrics & Pattern Recognition, Multimedia Information Processing.

Publication

Type	Paper Title	Author(s)	Journal Title	Year
Journal	DWT-EMD Feature Level Fusion Based Approach over Multi and Single Channel EEG Signals for Seizure Detection	Jana, GC; Agrawal, A; Pattnaik, PK; Sain, M	Diagnostics	2022
Journal	Capsule neural networks on spatio-temporal EEG frames for cross-subject emotion recognition	Jana, GC; Sabath, A; Agrawal, A	Biomedical Signal Processing and Control	2022



5. Prof. Shekhar Verma

Designation: Professor

Date of Joining: 11.01.2007

Department: Information Technology

Research Interests: Wireless Networks, Cryptography, Wireless Sensor Networks, Multimedia, Networks

Publication

Type	Paper Title	Author(s)	Journal Title	Year
Journal	Proactive threshold-proxy re-encryption scheme for secure data sharing on cloud	Raghav; Andola, N; Verma, K; Venkatesan, S.; Verma, Shekhar	Journal of supercomputing	2023
Journal	Proactive threshold-proxy re-encryption scheme for secure data sharing on cloud	Raghav; Andola, N; Verma, K; Venkatesan, S.; Verma, Shekhar	Journal of supercomputing	2023
Journal	Strike off removal in Indic scripts with transfer learning	Nigam, S.; Behera, A.P.; Gogoi, M.; Verma, S.; Nagabhushan, P.	Neural computing & applications	2023
Journal	P2LBS: Privacy Provisioning in Location-Based Services	Yadav, V.K.; Andola, Nitish; Verma, Shekhar; Venkatesan, S.	IEEE transactions on services computing	2023
Journal	Blockchain-based conditional privacy-preserving authentication scheme in VANETs	Mundhe, Pravin; Phad, Pooja; Yuvaraj, R.; Verma, Shekhar; Venkatesan, S.	Multimedia tools and applications	2023
Journal	Semi-supervised learning with dropouts	Abhishek; Yadav, RK; Verma, S.	Expert systems with applications	2023
Journal	Low-rank GAT: toward robust quantification of neighborhood influence	Yadav, R.K.; Verma, A; Shukla, P; Verma, K; Verma, Shekhar	Neural computing & applications	2023
Journal	Parzen Window Approximation on Riemannian Manifold	Abhishek; Yadav, Rakesh Kumar; Verma, Shekhar	Pattern recognition	2023
Journal	PSCLS: provably secure certificateless signature scheme for IoT device on cloud	Yadav, V.K.; Andola, Nitish; Verma, Shekhar; Venkatesan, S.	Journal of supercomputing	2023
Journal	Anonymous and Linkable Location-Based Services	Yadav, V.K.; Andola, Nitish; Verma, Shekhar; Venkatesan, S.	IEEE transactions on vehicular technology	2022
Journal	Graph attention autoencoder inspired CNN based brain tumor classification using MRI	Mishra, Lalita; Verma, Shekhar	Neurocomputing	2022
Journal	Curvature Regularized Similarity Based Ricci Flow Embedding	Behera, A.P.; Rani, Puja; Verma, Shekhar; Kumar, Manish	IEEE transactions on emerging topics in computational intelligence	2023
Journal	An enhanced smart card and dynamic ID based remote multi-server user authentication scheme	Andola, Nitish; Prakash, Sourabh; Gahlot, Raghav; Venkatesan, S.; Verma, Shekhar	Cluster computing-the journal of networks software tools and applications	2022
Journal	DUEL: Dempster Uncertainty-Based Enhanced-Trust Level Scheme for VANET	Bhargava, Arpita; Verma, Shekhar	IEEE transactions on intelligent transportation systems	2022

Journal	EP2LBS: efficient privacy-preserving scheme for location-based services	Yadav, V.K.; Andola, N.; Verma, Shekhar; Venkatesan, S.	Journal of supercomputing	2022
Journal	A secure searchable encryption scheme for cloud using hash-based indexing	Andola, N; Prakash, S.; Yadav, VK; Raghav; Venkatesan, S.; Verma, S.	Journal of computer and system sciences	2022
Journal	Searchable encryption on the cloud: a survey	Andola, N.; Gahlot, R.; Yadav, V.K.; Venkatesan, S.; Verma, S.	Journal of supercomputing	2022
Journal	Data visualization through non linear dimensionality reduction using feature based Ricci flow embedding	Behera, Adarsh Prasad; Singh, Jagriti; Verma, Shekhar; Kumar, Manish	Multimedia tools and applications	2022



6. Prof. Tapobrata Lahiri

Designation: Professor

Date of Joining: 03.07.2003

Department: Applied Sciences

Research Interests: Application of systems engineering (simulation, optimization, machine learning) and digital image/signal processing to build automated diagnostic system and bio-structure prediction system

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/Issue	Year	DoI
Journal	TemPred: A Novel Protein Template Search Engine to Improve Protein Structure Prediction	Asmita Tripathi, Rajkrishna Mondal, Tapobrata Lahiri, Deepak Chaurasiya, and Manoj Kumar Pal	IEEE/ACM Transactions on computational biology and bioinformatics,	20/3	2023	10.1109/TCBB.2022.3233846

Projects/Grants/Consultancy:

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation/ Role	Funding Agency	Grant Number	Status	Amount
To create a state-of-art facility for big data analytics of large-scale genomics and proteomics data - BIC at IIIT Allahabad	5 years	March, 2022	March 2027	Co-investigator	DBT	BT/PR40166/BTIS/137/37/2022	Ongoing	Rs. 50 lakhs

New Course Developed: Associated in development of all the courses of M.Tech. In BME

Seminar/Conference/Workshop/STP/FDP/etc. organised:

Title	Organizer	National/ International	Start Date	End Date	Role
Fractal Geometry and Related Fields	DoAS, IIIT Allahabad	National	September 25, 2022	October 1, 2022	Co-coordinator and member, Scientific committee

Seminar/Conference/Workshop/STP/FDP/etc. attended:

Title	Organizer	National/ International	Start Date	End Date	Role
Fractal Geometry and Related Fields	DoAS, IIIT Allahabad	National	Sep 25, 2022	Oct 1, 2022	Speaker

Membership in Professional Bodies: Not applicable

Professional Body Name	Member type
IEEE	Member (Inactive)

Membership in Committee within IIITA:

Type	Name of committee	Designation/ Role	Start Date	End Date
Administration	Board of Governors, IIITA	Member	December, 2020	Till date
Academic	Senate/Academic Council, IIITA	Member	September, 2009	Till date

Membership in Committee outside IIITA:

Type	Name of the Institution	Name of the Committee	Designation/ Role	Start Date	End Date
Administration	HBTU, UP	Executive Council, HBTU, UP	Nominated member	2019	Till date
Academic	University of Allahabad	Program Committee, Centre of Bioinformatics	Expert member	2018	Till date
Academic	University of Allahabad	Departmental Academic Integrity Panel	Member	2020	Till date



7. Prof. Vijaishri Tewari

Designation: Professor

Date of Joining: 24.05.2005

Department: Management Studies

Research Interests: Work Culture, Leadership, Group Dynamics, Performance Management, Motivation, Strategic HR, Employer Branding, Sustainable Human Resource Management, Psychological Contract, Emotional Intelligence, Team Dysfunction, Student Attitude, Soft Skills, Logistics & Supply Chain (Crowdshipping), Digital Platform & Sharing Economy, and Studying Employee Behaviour on social media.

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Does crowdsourcing services moderate effect on supply risk management performance in COVID-19 pandemic: evidence from India	Upadhyay, C. K., Tewari, V., & Tiwari, V.	Supply Chain Forum: An International Journal	-	2022	10.1080/16258312.2022.2090274
Journal	The soft skills gap: a bottleneck in the talent supply in emerging economies	Singh Dubey, R., Paul, J., & Tewari, V.	The International Journal of Human Resource Management	33(13)	2022	10.1080/09585192.2020.1871399
Journal	Gap Analysis of existing managerial skill set and the skills imparted by the management institutes for the IT Industry	Chadha, A., Gupta, A., & Tewari, V.	Economics, Business, Accounting & Society Review	1(3)	2022	10.55980/ebasr.v1i3.45
Journal	Generation "Z" willingness to participate in crowdshipping services to achieve sustainable last-mile delivery in emerging market	Upadhyay, C. K., Tewari, V., & Tiwari, V.	International Journal of Emerging Markets	-	2022	10.1108/IJOEM-09-2021-1345
Journal	An empirical assessment of antecedents able to attract the prospective talented workforce for information technology industry across borders	Pandiya, B., Tewari, V., & Upadhyay, C. K.	European Journal of International Management	-	2023	10.1504/EJIM.2023.129531
Journal	Sustainable training practices: predicting job satisfaction and employee behavior using machine learning techniques	Gupta, A., Chadha, A., Tewari, V., Varma, A., & Pereira, V.	Asian Business & Management	-	2023	10.1057/s41291-023-00234-5
Journal	Assessment Of Emotional Intelligence by Evaluating Emotional Recognition, Inhibition and Memory in The Leaders	Shankar, S. & Tewari, V.	Universitas Psychologica	-	2023	In Press

Projects/Grants/Consultancy

Title of the Project /Grant/ Consultancy	Duration	Start Date	End Date	Role	Funding Agency/ Sponsorer	Status	Amount
Social Media Presence and Information & Communication Technology (ICT) Adoption Status for improving competitiveness in MSME Sector: A Study of U.P.	Ongoing	2021	-	Co-Principal Investigator	Indian Council of Social Sciences (ICSSR)	Ongoing	4,00,000/-

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Chandra Kant Upadhyay	Evaluating the Scope of Last-Mile Delivery (LMD) through crowdshipping Application in Urban & Rural India	IIIT Allahabad	2022

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/International	Start Date	End Date	Role
Emotional Intelligence and Life Skills	Bennett University	National	13 February 2023	13 February 2023	Keynote Speaker

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
Does Dysfunction Team Affect Employees' Emotional Intelligence?	International Conference on Economics, Business Management, Accounting, and Sustainability, Bali, Indonesia	International	19 Oct' 2022	20 Oct'22	Co-Author
Role of Demographic Variable In Determining Sustainable Training Practices On Job Satisfaction, Psychology Contract Fulfilment and Organization Citizenship Behavior: A Data Visualization Method Study	International Conference on Economics, Business Management, Accounting and Sustainability, Bali, Indonesia	International	19 Oct'22	20 Oct'22	Co-Author

Membership in Professional Bodies

Professional Body Name	Member type	Membership Year
AIMA	Life Membership	2021

Membership in Committee within IIITA

Type	Name of Committee	Designation/Role
Admin	Senate	Member



8. Prof. Ranjit Singh

Designation: Professor

Date of Joining: 02.05.2013

Department: Management Studies

Research Interests: Behavioural Finance, Security Analysis and Protfolio Management, Islamic Finance.

Publication

Type	Paper Title	Author(s)	Journal Title	Year
Journal	Adoption of digital financial transactions: A review of literature and future research agenda	Kajol K.;Singh R.;Paul J.	Technological Forecasting and Social Change	2022
Journal	Users' Awareness Towards Digital Financial Transactions: A Study Conducted in India	Kajol K.;Singh R.	IFIP Advances in Information and Communication Technology	2022



9. Prof. Madhvendra Misra

Designation: Professor

Date of Joining: 24.05.2005

Department: Management Studies

Research Interests: Management Strategy, Marketing, Business Intelligence, Business Process & Consulting, Consumer Behaviour, Mark-tech and Modern Marketing

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Role of social media in technology adoption for sustainable agriculture practices: evidence from twitter analytics	J Yadav, A Yadav M Misra, N P Rana J Zhou	Communications of the association for information systems	52/1	2023	cais/vol52/iss1/35
Book Chapter	Unmasking counterfeit readymade garments in india using blockchain technology	J Yadav, M Misra, K Singh, S Goundar	The convergence of artificial intelligence and blockchain technologies	393-410	2022	10.1142/9789811225079_0018
Book Chapter	Indian corporate governance with relation to sarbanes oxley (SOX) act: proposing business intelligence (BI) and blockchain as an integrated key strategy	K Singh, M Misra, J yadav	The convergence of artificial intelligence and blockchain technologies	145-58	2022	
Book Chapter	Blockchain's potential to rescue sports: a social media perspective	J Yadav, M Misra, N P Rana, K Singh S Goundar	Distributed computing to blockchain	405-14	2023	10.1016/B978-0-323-96146-2.00025-5

New Course Developed

Course Title	Course Program
Data Driven Marketing	B.Tech / M.Tech / Ph.D. (with Specialization)
International Business Operations	

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Mohit Kumar	A study on the effects of Organizational Learning on Customer Satisfaction: A CRM Perspective	IIIT Allahabad	2022
Kuldeep Singh	Analyzing CSR Eco-System in India: Establishing Essential Characteristic Features and Operative Issues	IIIT Allahabad	2022
Jitendra Yadav	Enhancing Customer Engagement in Sports Marketing Through Digital Initiatives: Exploring Beyond Revenue Possibilities	IIIT Allahabad	2022

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
Capacity Building Program on Business Ethics	Prof Rajendra Singh University	National	04.03.2023	05.03.2023	Invited Resource Person



10. Prof. Pritish Kumar Varadwaj

Designation: Professor

Date of Joining: 11.07.2004

Department: Applied Sciences

Research Interests: Big Data Analysis, Machine Learning, Genomics, Structural Biology, Systems Biology

Publication

1) Agarwal, V., Tiwari, A., & Varadwaj, P. (2022). Prediction of suitable T and B cell epitopes for eliciting immunogenic response against SARS-CoV-2 and its mutant. Network Modeling Analysis in Health Informatics and Bioinformatics, 11, 1–13.
2) Agarwal, V., Tiwari, A., & Varadwaj, P. (2023). An Extensive Review on β-lactamase Enzymes and their Inhibitors. Current Medicinal Chemistry, 30(7), 783–808.
3) Agarwal, V., Yadav, T. C., Tiwari, A., & Varadwaj, P. K. (2022). Insights into structure and activity relationship of clinically mutated PER1 and PER2 class A β-lactamase enzymes. Journal of Biomolecular Structure and Dynamics, 1–18.
4) Dhara, A., Aier, I., Paladhi, A., Varadwaj, P. K., Hira, S. K., & Sen, N. (2022). PGC1 alpha coactivates ERG fusion to drive antioxidant target genes under metabolic stress. Communications Biology, 5(1), 416.
5) Doharey, P. K., Singh, V., Gedda, M. R., Sahoo, A. K., Varadwaj, P. K., & Sharma, B. (2022). In silico study indicates antimalarials as direct inhibitors of SARS-CoV-2-RNA dependent RNA polymerase. Journal of Biomolecular Structure and Dynamics, 40(12), 5588–5605.
6) Gautam, P. K., Shivalkar, S., Singh, A., Shivapriya Pingali, M., Chaudhary, S., Banerjee, S., Varadwaj, P. K., & Samanta, S. K. (2022). Bio-inspired Nanocomposites for Remediation of Pharmaceutical Pollutants. Nanotechnology for Environmental Remediation, 323–339.
7) Gupta, S., Singh, V., Varadwaj, P. K., Chakravartty, N., Katta, A. K. M., Lekkala, S. P., Thomas, G., Narasimhan, S., Reddy, A. R., & Reddy Lachagari, V. (2022). Secondary metabolites from spice and herbs as potential multitarget inhibitors of SARS-CoV-2 proteins. Journal of Biomolecular Structure and Dynamics, 40(5), 2264–2283.
8) Pingali, M. S., Singh, A., Singh, V., Sahoo, A. K., Varadwaj, P. K., & Samanta, S. K. (2023). Docking and molecular dynamics simulation for therapeutic repurposing in small cell lung cancer (SCLC) patients infected with COVID-19. Journal of Biomolecular Structure and Dynamics, 41(1), 16–25.
9) Semwal, R., Aier, I., Tyagi, P., Raj, U., & Varadwaj, P. K. (2023). DeepLBS: A deep Convolutional Neural Network-Based Ligand-Binding Site Prediction Tool. 2023 6th International Conference on Information Systems and Computer Networks (ISCON), 1–4.
10) Sharma, A., Kumar, R., & Varadwaj, P. (2022a). Developing human olfactory network and exploring olfactory receptor-odorant interaction. Journal of Biomolecular Structure and Dynamics, 1–20.
11) Sharma, A., Kumar, R., & Varadwaj, P. (2023). Smelling the Disease: Diagnostic Potential of Breath Analysis. Molecular Diagnosis & Therapy, 1–27.
12) Sharma, A., Kumar, R., & Varadwaj, P. K. (2022b). Decoding Seven Basic Odors by Investigating Pharmacophores and Molecular Features of Odorants. Current Bioinformatics, 17(8), 759–774.
13) Singh, V., Afshan, T., Tyagi, P., Varadwaj, P. K., & Sahoo, A. K. (2022). Recent development of multi-targeted inhibitors of human topoisomerase II enzyme as potent cancer therapeutics. International Journal of Biological Macromolecules.
14) Singh, V., Agarwal, V., Varadwaj, P. K., & others. (2022). In-Silico Study of Resveratrol as Multi-Edged Potent Inhibitor against SARS-Cov-2 and Variants of Concern Using Molecular Dynamic Simulation and PCA Analysis. Current Pharmaceutical Design.
15) Tyagi, P., Semwal, R., Sharma, A., Tiwary, U. S., & Varadwaj, P. (2023). E-nose: a low-cost fruit ripeness monitoring system. Journal of Agricultural Engineering, 54(1).



11. Prof. Pavan Chakraborty

Designation: Professor

Date of Joining: 24.04.2007

Department: Information Technology

Research Interests: Human Gait Analysis, Human Prosthetics, Bio-metrics, IP, GVC, Graphical Projections, Robotics & Instrumentation, Real Time Simulation, HPC, Artificial Life Simulation and Intelligence, HCI, Astronomy and Astrophysics, Large Astronomical Data Analysis, Cometary Jets Simulation

Publication

Type	Paper Title	Author(s)	Journal Title	Year
Journal	Development and analysis of a bio-inspired wire-driven variable stiffness double spring based tapered multi-section flexible robot	Sahoo, Alok Ranjan; Chakraborty, Pavan	Industrial robot-the international journal of robotics research and application	2022
Journal	DC-GNN: drop channel graph neural network for object classification and part segmentation in the point cloud	Meraz, Md; Ansari, Md Afzal; Javed, Mohammed; Chakraborty, Pavan	International journal of multimedia information retrieval	2022
Journal	A Study on Position Control of a Continuum Arm Using MAML (Model-Agnostic Meta-Learning) for Adapting Different Loading Conditions	Sahoo, Alok Ranjan; Chakraborty, Pavan	IEEE access	2022
Journal	Dealing with imbalanced regression problem for large dataset using scalable Artificial Neural Network	Sen, Snigdha; Singh, Krishna Pratap; Chakraborty, Pavan	New astronomy	2023
Journal	Astronomical big data processing using machine learning: A comprehensive review	Sen, Snigdha; Agarwal, Sonali; Chakraborty, Pavan; Singh, Krishna Pratap	Experimental astronomy	2022
Journal	A photometric study of regolith intimate mixing with ice-like impurity	Deb, Dwaipayan; Chakraborty, Pavan	European physical journal plus	2022



12. Prof. Vrijendra Singh

Designation: Professor
Date of Joining: 09.06.2005
Department: Information Technology
Research Interests: Social Network Analysis, Time Series Data Analytics, Natural Language Processing, Hate Speech Detection, Autism Spectrum Disorder Detection, Open-Source Intelligence, Machine/Deep Learning, Data Analytics

Publication

Type	Paper/Chapter Title	Author(s)	Title	Vol/ Issue	Year	DoI
Book	Advances in Cyber Security and Intelligent Analytics	Abhishek Verma, Jitendra Kumar, Hari Mohan Gaur, Vrijendra Singh, Valentina Emilia Balas	Advances in Cyber Security and Intelligent Analytics, CRC Press		21-12-2022	ISBN 97810322 16003
International Journal	Open-source intelligence: a comprehensive review of the current state, applications and future perspectives in cyber security	Ashok Yadav, Atul Kumar, Vrijendra Singh	Artificial Intelligence Review, Springer Netherlands		15-03-2023	10.1007/s 10462-023-10454-y
International Journal	Adaptive Discretization Using Golden Section to Aid Outlier Detection for Software Development Effort Estimation	S S Gautam, Vrijendra Singh	IEEE Access	10	2022	10.1109/ ACCESS. 2022.320 0149
International Conference/ Book Chapter	Autism Spectrum Disorder Classification of Facial Images Using Xception Model and Transfer Learning with Image Augmentation Online ISBN978-3-031-30111-7	Trapti Shrivastava, Vrijendra Singh, Anupam Agrawal	Neural Information Processing. ICONIP 2022. Lecture Notes in Computer Science. Springer	1362 5	2022	10.1007/9 78-3-031-30111-7_15 E-ISSN 1611-3349 Print ISSN 0302-9743
International Conference	Detecting Malware in Android Applications by Using Androguard Tool and XGBoost Algorithm	Uday Sai Kumar, Ashok Yadav, Vrijendra Singh	2022 IEEE 9th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)		02-04 Dec'2022	10.1109/ UPCON5 6432.202 2.998647 0

International Conference	Detecting SQL Injection Attack using Natural Language Processing	Sagar Lakhani, Ashok Yadav, Vrijendra Singh	2022 IEEE 9th UP Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)		02-04 Dec'2022	10.1109/UPCON56432.2022.9986470

Projects/Grants/Consultancy

Title of the Project /Grant/ Consultancy	Duration	Start Date	End Date	Designation/ Role	Funding Agency/ Sponsorer	Grant Number	Status	Amount
"Capacity Building in Robotics & Autonomous Systems in India (IRAS- HUB), ERASMUS-EDU-2022-CBHE-STRAND-2-Capacity Building in the field of Higher Education: Strand"	2023-2025	29 March 2023	31 March 2025	P/I Incharge/ Co-PI	European Union (EU), European Education and Culture Executive Agency (EACEA)	101083029-IRAS-HUB-2023	Ongoing	800,000 Euros
Emotion Recognition for Creating a Homeostatic balance between Human and Robot in a Cobotics Framework	2020-2024	Dec. 2020	June 2024	P/I Incharge/ Co-PI	Technology Innovation Hub for Cobotics (i.e., Collaborative Robotics) [A Section-8 Company: I-Hub Foundation for Cobotics (IHFC)], IIT Delhi, approved by the National Mission on Interdisciplinary Cyber Physical Systems (NM-ICPS), DST, Govt. of India	-	Ongoing	118.00 Lakhs + 50.0 Lakhs from NSF
Social Awareness for Covid-19 Through AI Based Mobile App	2021-2024	Feb. 17, 2021	March 31, 2024	PI	NCSTC, Dept. of Science & Technology, Govt. of India	TPN/52915	Ongoing	15.77 Lakhs
SERB Grant for organising 16th	2023	Feb. 23,	Feb. 25,	PI	Science & Engineering	SSY/2022/0011	Completed	03.00 Lakhs

Innovations in Software Engineering Conference		2023	2023		Research Board (SERB), GoI, New Delhi	60		

New Course Developed

Course Title	Course No. (if any)	Course Program
Social Network Analysis	SNA, MSNA, PWSNA, PSNA	B.Tech / M.Tech / Ph.D. /Ph.D. WP
Time Series Data Analytics	ITSA, TSDA	B.Tech / M.Tech / Ph.D. /Ph.D. WP

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Swarnima Singh Gautam	Machine Learning-Based Software Development Effort Estimation: An Empirical Analysis of Data Quality Improvement Approaches	IIIT Allahabad, Prayagraj	2022

Seminar/Conference/Workshop/STP/FDP/etc. organised/attended

Title	Organizer	National/ International	Start Date	End Date	Role
16th Innovations in Software Engineering Conference (ISEC)	IIIT Allahabad & iSOFT, ACM SIGSOFT	International Conference	23.02.2023	25.02.2023	Organiser & Finance Chair
9th "IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2022)	IIIT Allahabad	International Conference	02.12.2022	04.12.2022	Organiser, TPC Chair, Session Chair, Presenter
One Week FDP on Next Generation Artificial Intelligence and Applications	Artificial Intelligence Research Centre, Department of Computer Science & Engineering, BBD University, Lucknow, and Soft Computing Research Society, New Delhi	International FDP	08.02.2022	13.02.2023	Resource Person
One week FDP on Artificial Intelligence for Sustainable Development	Artificial Intelligence Research Centre, Department of Computer Science & Engineering, BBD University, Lucknow, and ShodhGuru Innovation and Research Lab, India and IEEE UP Section, CIS Chapter	International FDP	17.09.2022	22.09.2022	Organiser and Resource Person
29th International Conference on Neural Information Processing (ICONIP 2022), annual flagship conference	IIIT Allahabad & IIT Indore & APNNS	International Conference	22.11.2022	26.11.2022	Organiser and Sponsorship Chair

organized by the Asia Pacific Neural Network Society (APNNS)					
Human Robot Interactions Workshop	Center of Intelligent Robotics, Indian Institute of Information Technology Allahabad, and IHFC, IIT Delhi	International Workshop	24.11.2022	26.11.2022	Organiser
International Conference on Computer Vision and Machine Intelligence (CVMI)	CVBL- IIITA, CVL-University of Ljubljana, Slovenia, MCVL-National Cheng Kung University, Taiwan, UPHF-France, and Department of Computer Science, University of Münster, Germany	International Conference	12.08.2022	13.08.2022	Organiser & Technical Programme Chair, Session Chair

Membership in Professional Bodies

Professional Body Name	Member type	Membership Year
IEEE	Senior Member	2022-2023
IEEE UP Section CIS Chapter	Chairman	2022-2023
Asia Pacific Neural Network Assembly	Member	2022
International Association of Engineers	Member	2022-2023
Society for Neurochemistry India	Life Member	2022-2023

Membership in Committee within IIITA

Type	Name of Committee	Designation/Role	Start Date	End Date
Academic	Senate	Member	2022	till date
Admin	Convocation Committee	Chairman-Seating, Queuing & Degree Distribution	2022	-
Admin	Review of Gymkhana/B. Tech. Students/Internal Budget of Institute - Committee constituted by Chairman BoG	Chairman/ Member	June 2022	-
Admin	Central Computing Facility, IIIT Allahabad	Member	2022	2023
Admin/Research	NewGen IEDC Centre at IIIT Allahabad Project Selection Meeting	Chairman & Director's Nominee	19.10.2022	–
Admin	Dispute Resolving Committee	Chairman	13.01.2023	
Admin	Global Alumni Meet	Co-Chairman	2022	
Academic	DPGC	Member	2022	2023

Membership in Committee outside IIITA

Type	Name of the Institution	Name of the Committee	Designation / Role	Start Date	End Date
Admin	IIIT Una, Himachal Pradesh	Board of Governors	Member	23-12-2020	23-12-2023
Academic	IIIT Una, Himachal Pradesh	Senate	Member	16-10-2018	16-10-2025
Expert/ Research	BIRAC, Dept. of Biotechnology, GoI,	Scientific Advisory Committee & Project Monitoring & Review Committee	Member	06.01.2020	till date
Admin	IIIT UNA	BoG Sub Committee for Non-Faculty Recruitment and Promotion Rules (NFRPRs)	Member	May 2022	–
Admin & Research/ Academic	Centre for Advanced Studies, AKTU, Lucknow	Research Degree Committee/Faculty Selection Committee	Member	2020	till date
Admin, Academic & Research	Abdul Kalam Technical University, Lucknow	Research Degree Committee/ PhD Defense Committee/Admission Committee/Confidential work/Faculty Selection Committee	Member	2020	till date
Admin/Expert	Ministry of Technical Education, Govt. of UP	Selection Committee for Professors/Associate/Assistant in Dept. of IT/CS	Expert Member	2022	till date
Research	UPES Dehradun	Research Degree Committee	Member	2022	2023
Admin/ Research	IIIT Gwalior	Evaluate the Self Appraisal of Faculty Members/evaluate the research proposals under Faculty Initiation Grant (FIG) scheme	Member	13/03/2023	–



13. Prof. Neetesh Purohit

Designation: Professor
Date of Joining: 05.09.2006
Department: Electronics and Communication Engineering
Research Interests: Information and Communication Technologies, Cyber Security, Wireless Networks, Digital Signal Processing

Publication

- K. Anjali Rao, Abhishek Kumar, Dmitrii Kaplun, Sujit Kumar Patel, Neetesh Purohit, "Design of Low Complexity Parallel Polyphase FIR Filter Using Coefficient Symmetry" IET circuit device and system, 2022.
- Preeti Kharwar, Suneel Yadav, and Neetesh Purohit, "Performance Evaluation of Multiuser IoT Wireless-Powered Relaying Networks with Transceiver Hardware Imperfections Over Nakagami-*m* Fading Channels," accepted for publication, Wiley-International Journal of Communication Systems, March 2022.
- K. Anjali Rao, Neetesh Purohit, "Hardware efficient 2-parallel and 3-parallel even length FIR filter using FFA" IEEE International Conference on convergence in technology (I2CT) 2023 (accepted).
- K. Anjali Rao, Manisha pandit, Neetesh Purohit," Efficient 3-parallel polyphase odd length FIR filter using Brent Kung adder and Booth multiplier for VLSI applications" IEEE 9th International Conference on Electrical, Electronics, and Computer Engineering (UPCON) 2022
- Neha Jaiswal, Anshul Pandey, Suneel Yadav, and Neetesh Purohit, "Intercept Probability Analysis of NOMA-Enabled V2V Communications Over Double-Rayleigh Fading Channels," IEEE International Black Sea Conference on Communications and Networking (IEEE BlackSeaCom), 2022, accepted for oral presentation, 6-9 June 2022.

Projects/Grants/Consultancy

- Coinvestigator, "NiPDD: Designing an Artificial Intelligence based CMOS Sensor system for Non-Invasive Detection of Parkinson's disease", Biomedical Informatics, ICMR.
- FIST Project Implementation Team Member, "To develop an Advance RF and Microwave Testing and Measurement Laboratory " under Fund for Improvement of S&T Infrastructure (FIST, Level-1) in Higher Educational Institutions.
- Principal Investigator, "STI Hub in ICT at IIITA Prayagraj", funded by SEED division of DST.
- Director, IIITA Infocommunication Incubation Center (IIIC: a section 8 company established by IIITA Prayagraj)
- IIITA Team of investigators working under 'The National Technical Center on Cyber Security at IITK, funded by DST.

  (i) Coinvestigator, 'Industry scale IoT based testbed' module (Dr. S. Venkatesan is the PI)

  (ii) Coinvestigator, 'Reliable and Privacy-Preserving Data Auditing for FOG assisted Cyber-Physical Systems (FOG-CPS)' (Dr. S. Maity is the PI)

Doctoral Theses Guided

- 'Performance Analysis and Optimization of IoT Relaying Networks under Transceiver Hardware Impairments' Mrs. Preeti Kharwar (Dr. Suneel Yadav is another Supervisor)
- 'Performance Evaluation of nonorthogonal multiple access (NOMA) over vehicular networks', Ms. Neha Jaisawal

Seminar/Conference/Workshop/STP/FDP/etc. organised

- Chair, Ph.D. Colloquium, 9th IEEE UP Section International Conference on Electrical, Electronics and Computer Engineering, UPCON2022, 2-4 Dec 2022, IIITA Prayagraj
- General Chair, 6th IEEE Conference on Information and Communication Technology (CICT) 2022, Nov 18-20, 2022 IIITM Gwalior. This conference is annually organized by all Centrally Funded IIITs in a round-robin fashion.

Invited Talks Delivered

- A keynote talk, "Importance of Knowing the Constitution of India for Common Citizen", Constitution Day celebration 26th Nov 2022, AKTU Lucknow.

- A Keynote Talk on, "Semantic Communication for Beyond 5th Generation (B5G) Wireless Networks", 9th International Conference on Engineering & Telecommunication (En&T-2022), MIPT, Moscow Russia, Nov 23-24, 2022.
- Prime Mover and Moderator of the Panel discussions on, "Semantic Communication for B5G Wireless Networks", 6th IEEE CICT, IIITM Gwalior, Nov 18-20, 2022.
- 'Curriculum designing, Outcome based learning, and Choice based credit system', 10th GURU DAKSHTA a Faculty Induction Programme being organized by UGC-HRDC University of Allahabad for newly appointed faculty members during November 07, 2022 to Dec 06, 2022.
- 'एजुकेशन टाउनशिप: प्रयागराज में सम्भावनाए', अमर उजाला समाचार पत्र द्वारा आयोजिन संवाद, ८ सितम्बर २०२२ प्रयागराज
- 'Semantic Communications for 6G', FDP on 5G and B5G Wireless Technologies with MATLAB Practice July 25-August 5, 2022 in online mode, Electronics and ICT Academy PDPM IIITDM, Jabalpur
- 'Promising Technologies for upcoming Wireless Networks', Talk in FDP at SRM Andhra Pradesh May 24th 2022.

Membership in Professional Bodies

- IEEE Senior Member

Membership in Committee within IIITA

- Dean (Academic) March 2022 to Dec 2022
- Member of IIITA Senate

Membership in Committee outside IIITA

- Member of Academic Ethics Committee, IIT Kanpur
- Member BOG HBTU Kanpur (Representative of the Director IIITA)
- Member BOS ECE Dept IET Lucknow
- Member BPGS Dept of IT BBAU Lucknow
- Member and the Coordinator of the Committee for FAP implementation planning at AKTU Lucknow
- Member, CSAB-2022 Core Committee
- Chairman, Committee of Dean (Academics) of CFIIITs
- Member, Advisory Committee for the Centre of Vocational Studies and Skill Development, Allahabad University, Prayagraj
- Member, Board of Studies Electronics Engineering, Veer Bahadur Singh Purvanchal University, Jaunpur, UP

Honours and Awards

- Hon'ble President of India has nominated me on the Selection Committees of NITs and IIEST in Engineering and Technology Group for 3 years starting from 10th Jan 2023



14. Prof. Manish Goswami

Designation: Professor

Date of Joining: 01.06.2008

Department: Electronics and Communication Engineering

Research Interests: Low Power Circuit design, Analog and Mixed Signal VLSI Design, Data Converters, Memory Design

Publication

Type	Paper Title	Author(s)	Year	DoI
Conference	Design of Hexagonal Oscillator for True Random Number Generation	Krishan Mehra, Dhirendra Kumar, Kavindra Kandpal, Prasanna Kumar Misra, Manish Goswami	2022	10.1109/ICECS202256217.2022.9971060
Conference	A 0.18 pJ/Conversion Step Hybrid Structure based ADC	Dipti, Shipra Gaur, Kavindra Kandpal, Prasanna Kumar Misra, Manish Goswami	2022	10.1109/ASIANCON55314.2022.9908678
Conference	Design of a Low-Voltage Charge-Sensitive Preamplifier Interfaced with Piezoelectric Tactile Sensor for Tumour Detection	Kingsuk Bag, Kislay Deep, Sharad Verma, Shashi Prabha Yadav, Manish Goswami, Kavindra Kandpal	2022	10.1007/978-3-031-21514-8_3
Symposium	A 14 nm Single-Ended Schmitt Trigger SRAM Cell for Improved SNM & Delay	Nanda Deep Vallamchetty, Manish Goswami, Kavindra Kandpal	2022	10.1109/iSES54909.2022.00080
Conference	FPGA Based Resource Efficient Simulation and Emulation Of Grover's Search Algorithm	Kingsuk Bag, Manish Goswami, Kavindra Kandpal	2022	10.1109/INDICON56171.2022.10040039
Conference	Impact of Gaussian Grain Boundary Trap States on the Performance of the LTPS TFTs	Saurabh Jaiswal, Manoj Kumar Singh, Rupam Gosawmi, Manish Goswami, Kavindra Kandpal	2022	10.1109/EDKCON56221.2022.10032858
Conference	Design of a Low-Voltage and Reduced Programming cycle AMOLED Pixel Circuit using IGZO TFTs	Divya Dubey, Manish Goswami, Kavindra Kandpal	2022	10.1109/ICEE56203.2022.10117754
Conference	Effect of deep and tail grain boundary trap states on the performance of poly-ZnO TFT	Saurabh Jaiswal, Sairam Akula, Rupam Gosawmi, Manish Goswami, Kavindra Kandpal	2022	10.1109/EDKCON56221.2022.10032887

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Dhirendra Kumar	Low Power High Speed True Random Number Generator for Cryptography and Security Applications	IIIT Allahabad	**2022**

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	Start Date	End Date	Role
Summer Training Program on VLSI Design	Prof. Manish Goswami	06-06-2022	05-07-2022	Coordinator

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Senior member	2022-2023



15. Dr. Anurika Vaish

Designation: Associate Professor
Date of Joining: 24.05.2005
Department: Management studies
Research Interests: Economics, Finance & accounting, Financial Inclusion and Digital Revolution

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/Issue	Year
Journal	A Study on social media and Higher Education during the COVID-19 Pandemic	Sarthak Sengupta, AnurikaVaish	Universal Access in the Information Society	Special issue	2023
Journal	A Bibliometric Analysis on FinTech and social media	Sarthak Sengupta, AnnuTomar, Anamika Chandra, AnurikaVaish	Empirical Economics Letters	Special issue	2023
Journal	A Study on Social Networking Platforms in Higher Education Institutions	Sarthak Sengupta, AnurikaVaish	Academy of Marketing Studies Journal	Volume 26, Issue 3	2022
Journal	An Automatic Threshold Selection Using ALO for Healthcare Duplicate Record Detection with Reciprocal Neuro-Fuzzy Inference System	Ala Saleh Alluhaidan, Pushparaj, Anitha Subbappa, Ved Mishra, Chandrika, Anurika Vaish, Sarthak Sengupta	CMC-Computers, Materials & Continua	Vol. 74, Number 3	2023
Journal	Deep Learning and Asset Allocation: A Bibliometric Analysis with AHP approach	AnurikaVaish, Nishit Srivastava, Priyanshu Priyam, Sarthak Sengupta	The IUP Journal of Accounting Research & Audit Practices	Volume 21, Issue 1	2022
Conference	Optimized Implementation of E-Learning Management System for Educational Development	Sarthak Sengupta, AnurikaVaish	AIRC 2022	IIM Lucknow	2022
Conference	Impact of Behavior on Digital Payment Usage with Special Reference to Consumer Purchasing Pattern	Kesarwani Ujjwal &VaishAnurika	BIZAD 2023	College of ManagementKattankulathur	2023
Conference	Various Financial scheme available through SHG both in rural and urban areas promoting women entrepreneurship for financial sustainability	Raj Alok &VaishAnurika	BIZAD 2023	College of ManagementKattankulathur	2023
Conference	Study on the role of SHG in promotion of women entrepreneurship for financial sustainability	Vaish et al.	ICMPR 2023	Apeejay School of Management	2023

Projects/Grants/Consultancy

Title of the Project /Grant/ Consultancy	Duration	Start Date	Designation/Role	Funding Agency/ Sponsorer	Status	Amount
A hybrid platform for real-time intrusion detection framework based on security intelligence monitoring system	3 Years	Sanction order dated: Feb. 2022	Associate Professor	India-Slovenia Programme of Cooperation in Science and Technology	Ongoing	26.25 Lakhs

Patent/Copyright

Title of the Patent/ Copyright	Inventor(s)	Assignee / Organisation	Application Number	Filing Country	Subject Category	Filing Date	Status
A method and system for performing sentiment analysis on tweets from genuine Twitter accounts	Dr. Anurika Vaish, Sarthak Sengupta, Soumyadeep Basu	IIIT Allahabad	2023/02598	South Africa	Standard	27 Feb 2023	Filed

New Course Developed

Course Title	Course No. (if any)	Course Program
Principles of Management		BTech
International Business Management		MBA

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Sarthak Sengupta	Impact of social media on higher education institutions in India	IIIT Allahabad	Pursuing
Nimisha Singh	Examining the trust quotient and its acceptability to analysis the shift in Gig Economy	IIIT Allahabad	Pursuing
Priti	Proliferation of Digital Transaction in the Era of Technological Advancement for Rural India: A Study	IIIT Allahabad	Pursuing

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
Faculty Development Program (online) on Techno Entrepreneurship Training program	E&ICT Academy Roorkee & IEEE Uttar Pradesh section	National	15/9/2022	19/9/2022	Attendee
Talk on "Generation Z: Refining Management Perspectives" at the National Conference	Gyan Ganga Institute of Technology & Sciences	National	17/6/2022	17/6/2022	Speaker

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
All India Management Association	Life member	Life member
Association of Indian Management Schools	Member	Yearly
Indian Commerce Association	Life Member	Life member
American Finance Association	Member	3 years

Membership in Committee within IIITA

Type	Name of Committee	Designation/ Role	Start Date	End Date
Admin	Ministry of Education &Special Development	Faculty In-charge	01.04.2022	31.03.2023
Admin	Training and Placement of Department of Management Studies	Chairperson	01.04.2022	31.03.2023
Academic	PhD written exam admissions committee of Department of Management Studies	Chairperson	01.04.2022	31.03.2023
Academic	MBA admissions of Department of Management Studies	Committee Member	01.04.2022	31.03.2023



16. Dr. Sanjai Singh

Designation: Associate Professor

Date of Joining: 16.03.2007

Department: Electronics and Communication Engineering

Research Interests: Energy Materials, Computational Condensed Matter Physics, Nano-Materials and Devices, Synthesis and Characterisation of FE-NVM Devices

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
SCI-Journal	A potential absorber for PHz electronics using Sn/h-BN Van der Waals structure: A hybrid DFT and macroscopic investigations	Anup Shrivastava, Shivani Saini, Pankaj Kumar, Sanjai Singh,	Physica E: Low-dimensional Systems and Nanostructures	144	2022	10.1016/j.physe.2022.115423
SCI-Journal	An optimum thermoelectric figure of merit using GeSe monolayer: an ab-initio approach	Shivani Saini, Anup Shrivastava, Sanjai Singh,	Physica E: Low-dimensional Systems and Nanostructures	134	2022	10.1016/j.physe.2021.115060
SCI-Journal	A giant thermoelectric figure of merit and ultra-low lattice thermal conductivity using Janus Ge2SeTe monolayer: a first principle investigation	Shivani Saini, Anup Shrivastava, Sanjai Singh,	The European Physical Journal Plus	137	2022	10.1140/epjp/s13360-022-02996-x
SCI-Journal	Design and analysis of dual-band circularly polarized hybrid ring cylindrical dielectric resonator antenna for wireless applications in C and X-Band	Chandravilash Rai, Sanjai Singh, Ashutosh Kumar Singh & Ramesh Kumar Verma	Wireless Personal Communications	126	2022	10.1007/s11277-022-09796-7
SCI-Journal	Liquid phase exfoliated 2-D MoS2-based broadband heterojunction low-powered photosensor	Surendra Kr., V. Gautam, A K Singh, G K Maurya, Sanjai Singh, Pramod Kumar	IEEE Transactions on Electron Devices	70	2023	10.1109/TED.2023.3239041
SCI-Journal	Improvement in ferroelectric properties of BaTiO3 film by mn/sr doping for non-volatile memory applications	Ajit Debnath, Suraj Kumar Lalwani, Sanjai Singh, Sunny	Micro and Nanostructures	171	2022	10.1016/j.micrna.2022.207421

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Shivani Saini	Ab-Initio Investigations of Thermoelectric Behaviour for Emerging 2-D Materials	IIIT Allahabad	2023
Anup Shrivastava	First-principle analysis of emerging 2D materials: modelling and applications	IIIT Allahabad	2023

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
EMRS-2022	EMRS	International	19-Sep-2022	22-Sep-2022	Invited Speaker
International Conclave on Materials, Energy and Climate (ICMEC 2022)	IAAM	International	12-Dec-2022	14-Dec-2022	Session Chair

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Member	2022

Membership in Committee within IIITA

Type	Name of Committee	Designation/Role	Start Date	End Date
Admin	Inquiry Committee	Member	2023	2023

Honours and Awards

Awarded Year	Award Name	Awarded by
2022	Vikram A. Sarabhai Diamond Jubilee Medal	International Association of Advanced Materials



17. Dr. Rajat Kumar Singh

Designation: Associate Professor

Date of Joining: 01.07.2007

Department: Electronics and Communication Engineering

Research Interest: Photonic Packet Switch Architecture, Optical Data Storage, Optical Networks and Switching, Wireless Sensor Network

Publication

Type	Paper Title	Author	Journal/ Conference Title	Vol/ Issue	Year	DoI
Journal	Semi-Circular mushroom resonator loaded substrate integrated waveguide cavity based compact triple-band bandpass filter with high selectivity	Soumit Samaddar Chaudhury, Seema Awasthi, and Rajat Kumar Singh	RF and Microwave CAD (Wiley)	32/5	2022	10.1002/mmce.23112
Journal	Energy-Efficient Duty-Cycle Hybrid Medium Access Control Protocol for Wireless Sensor Network	Manoj Tolani, Ambar Bajpai, Arun Balodi, Sunny Sharma, and Rajat Kumar Singh	Wireless Pers Commun (Springer)	131	2023	10.1007/s11277-023-10448-7
Conference	Independent Control Over the Passband of Bandpass Filter Based on Semi-Circular Mushroom Loaded Substrate Integrated Waveguide	Soumit Samaddar Chaudhury, Seema Awasthi, and Rajat Kumar Singh	IEEE MAPCON 2022		2022	10.1109/MAPCON56011.2022.10047632

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation /Role	Funding Agency/ Sponsorer	Grant Number	Status	Amount (Rs.)
Optimal Clustering using Hybrid Techniques in Wireless Sensor Networks	3 Yrs	11-10-2022	10-10-2025	P.I.	CST, UP	CST/D-1225 (ID 1196)	Ongoing	10,44,000

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/International	Start Date	End Date	Role
UPCON-2022	IIIT-Allahabad	International	02-12-2022	04-12-2022	General Co-Chair

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Senior Member	2022

Membership in Committee within IIITA

Type	Name of Committee	Designation /Role	Start Date	End Date
Administrative	Grievance Cell	Chairman	30-11-2022	Contd.



18. Dr. Ashutosh Mishra

Designation: Associate Professor
Date of Joining: 29.11.2012
Department: Applied Sciences
Research Interests: Bioelectrics, Medical Instrumentation, Learning Systems

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Multiphysics Analysis of Reversible Electroporation and Electrodeformation of Cervical Cells Using a Nanosecond Pulse Generator	Mayank Kumar, Ashutosh Mishra	IEEE Transactions on Plasma Science	51/2	2023	10.1109/TPS.2023.3235373

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/International	Start Date	End Date	Role
Workshop on Data Science & Application Areas	IIITA	National	2022-05-14	2022-05-17	Speaker

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Member	2023

Membership in Committee within IIITA

Type	Name of Committee	Designation/Role	Start Date	End Date
Administrative	STC 1	Chair	2021-04-01	Ongoing
Administrative	CISO	Chief Info. Sec. Officer	2023-3-21	Ongoing

Membership in Committee outside IIITA

Type (Academic/Admin./Etc.)	Name of the Institution	Name of the Committee	Designation/ Role	Start Date
Etc.	DST-TDB	ISC	Member	2021-04-01
Etc.	DST - TDB	ISC – Tech. Awards	Member	2023-02-07



19. Dr. Vijay Kumar Chaurasiya

Designation: Associate Professor
Date of Joining: 29.06.2005
Department: Information Technology
Research Interests: Wireless and Mobile Networks

Publication

Type	Paper Title	Author(s)	Journal Title	Year
Journal	Blockchain and IoT Based Infrastructure for Secure Smart City Using Deep Learning Algorithm with Dingo Optimization	Mishra, Sourav; Chaurasiya, Vijay Kumar	Wireless personal communications	2023
Journal	AEDS-IoT: Adaptive clustering-based Event Detection Scheme for IoT data streams	Raut, Ashwin; Shivhare, Anubhav; Chaurasiya, Vijay Kumar; Kumar, Manish	Internet of things	2023
Journal	Hybrid deep learning algorithm for smart cities security enhancement through blockchain and internet of things	Mishra, Sourav; Chaurasiya, Vijay Kumar	Multimedia tools and applications	2023
Journal	Proof of location based delivery system using multi-party virtual state channel: a blockchain model	Sahoo, Sujit Sangram; Chaurasiya, Vijay Kumar	Journal of supercomputing	2023
Journal	Mutual authentication framework using fog computing in healthcare	Singh, Sunakshi; Chaurasiya, Vijay Kumar	Multimedia tools and applications	2022
Journal	QoS supported redundancy balanced data transmission scheme for wireless body area network based H-IoT	Gupta, Arti; Chaurasiya, Vijay Kumar	Wireless networks	2023
Journal	Blockchain Based n-party Virtual Payment Model with Concurrent Execution	Sahoo, Sujit Sangram; Menon, Aravind R.; Chaurasiya, Vijay Kumar	Arabian journal for science and engineering	2023
Journal	A secure payment channel rebalancing model for layer-2 blockchain	Sahoo, Sujit Sangram; Hosmane, Mahesh Mohan; Chaurasiya, Vijay Kumar	Internet of things	2023
Journal	Adaptive traffic light control using deep reinforcement learning technique	Kumar, Ritesh; Sharma, Nistala Venkata Kameshwer; Chaurasiya, Vijay K.	Multimedia tools and applications	2023
Journal	Adaptive hyperparameter optimization for short term traffic flow prediction with spatial temporal correlated raster data	Raut, Ashwin; Maurya, Manish Kumar; Chaurasiya, Vijay Kumar; Kumar, Manish	Evolving systems	2023
Journal	Real-time data sharing, path planning and route optimization in urban traffic management	Kumar, Ritesh; Kori, Nikhil; Chaurasiya, Vijay Kumar	Multimedia tools and applications	2023
Journal	VIBE: Blockchain-based Virtual Payment in IoT Ecosystem: A Secure Decentralized Marketplace	Sahoo, Sujit Sangram; Chaurasiya, Vijay Kumar	Multimedia tools and applications	2023
Journal	Efficient Anonymous Batch	Maurya, Chanchal; Chaurasiya,	IEEE transactions on	2023

	Authentication Scheme With Conditional Privacy in the Internet of Vehicles (IoV) Applications	Vijay Kumar	intelligent transportation systems	
Journal	EASB: ECC based aggregate signature without bilinear pairing for blockchain	Sahoo, Sujit Sangram; Chaurasiya, Vijay Kumar	Multimedia tools and applications	2023
Journal	Collusion-resistant and privacy-preserving data sharing scheme on outsourced data in e-healthcare system	Maurya, Chanchal; Chaurasiya, Vijay Kumar	Multimedia tools and applications	2023
Journal	Route Planning Using Multicasting Approach in Vehicular Ad Hoc Networks	Kumar, Ritesh; Mishra, Yogesh Chandra; Chaurasiya, Vijay Kumar	Wireless personal communications	2023



20. Dr. Manish Kumar

Designation: Associate Professor

Date of Joining: 06.07.2005

Department: Information Technology

Research Interests: Big Data Analytics, Machine Learning and Data Analytics, IoT and Smart City Applications, Wireless Sensor Networks (Data Processing, Event Detection, and Data Aggregation)

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Real-time traffic light violations using distributed streaming	Tinku Singh, Vinarm Rajput, Satakshi, Umesh Prasad & Manish Kumar	The Journal of Supercomputing	79	2023	10.1007/s11227-022-04977-4
Journal	AEDS-IoT: Adaptive clustering-based Event Detection Scheme for IoT data streams	Ashwin Raut, Anubhav Shivhare, Vijay Kumar Chaurasiya, Manish Kumar	Internet of Things (Elsevier)	22	2023	10.1016/j.iot.2023.100704
Journal	Adaptive load balancing in cluster computing environment	T Singh, S Gupta, M Kumar	The Journal of Supercomputing	79	2023	10.1007/s11227-023-05434-6
Journal	Multivariate time series short term forecasting using cumulative data of coronavirus	Suryanshi Mishra, Tinku Singh, Manish Kumar, Satakshi	Evolving Systems	14	2023	10.1007/s12530-023-09509-w
Journal	Analysis and forecasting of air quality index based on satellite data	T Singh, N Sharma, Satakshi, M Kumar	Inhalation Toxicology	35	2023	10.1080/08958378.2022.2164388
Journal	Distributed hyperparameter optimization based multivariate time series forecasting	T Singh, A Sinha, S Singh, OP Vyas, M Kumar	Multimedia Tools and Applications	81	2023	10.1007/s11042-023-15456-0
Journal	Improved multi-class classification approach for imbalanced big data on spark	T Singh, R Khanna, Satakshi, M Kumar	The Journal of Supercomputing	79	2023	10.1007/s11227-022-04908-3
Journal	Quality Assessment and Monitoring of River Water Using IoT Infrastructure	M Kumar, T Singh, MK Maurya, A Shivhare, A Raut, PK Singh	IEEE Internet of Things Journal	10	2023	10.1109/JIOT.2023.3238123
Journal	A survey on event detection approaches for sensor based IoT	Manish Kumar, Pramod Kumar Singh, Manish Kumar Maurya, Anubhav Shivhare	Internet of Things (Elsevier)	22	2023	10.1016/j.iot.2023.100720
Journal	Performance analysis and deployment of partitioning strategies in apache spark	Tinku Singh, Shivam Gupta, Manish Kumar	Procedia Computer Science	218	2023	10.1016/j.procs.2023.01.041
Journal	Random Partition Based Adaptive Distributed	Amrit Pal, Abishi Chowdhury, Husnu S	IEEE Acess	10	2023	10.1109/ACCESS.2022.32

	Kernelized SVM for Big Data	Narman, Arkabandhu Chowdhury, Manish Kumar				04114
Conference	Distributed Item Recommendation Using Sentiment Analysis	Tinku Singh, Vinarm Rajput, Nikhil Sharma, Satakshi, Manish Kumar	Lecture Notes in Networks and Systems	551	2023	10.1007/978-981-19-6631-6_19
Conference	Stock Market Prediction Using Ensemble Learning and Sentimental Analysis	T Singh, S Bhisikar, Satakshi, M Kumar	Lecture Notes in Electrical Engineering	946	2023	10.1007/978-981-19-5868-7_32
Conference	A Methodological Review of Time Series Forecasting with Deep Learning Model: A Case Study on Electricity Load and Price Prediction	A Sinha, T Singh, R Vyas, M Kumar, OP Vyas	Lecture Notes in Electrical Engineering	946	2023	10.1007/978-981-19-5868-7_34
Conference	Air Quality Analysis During COVID-19 Utilizing Satellite Data	Tinku Singh, Nikhil Sharma, Vinarm Rajput, Suryanshi Mishra, Sataksh, Manish Kumar	2nd International Conference on Intelligent Technologies (CONIT)		2022	10.1109/CONIT55038.2022.9848299
Conference	IoT-Based Plant Disease Detection and Classification: A Study on Learning Models	Pramod Kumar Singh, Anubhav Shivhare, Ashwin Raut & Manish Kumar	Lecture Notes in Networks and Systems	653	2022	10.1007/978-981-99-0981-0_11
Conference	Distributed Decision Fusion for Large Scale IoT-Ecosystem	Ashwin Raut, Divesh Kumar, Vijay Kumar Chaurasiya, Manish Kumar	IEEE 15th International Symposium on Embedded Multicore /Many-core Systems-on-Chip (MCSoC)		2022	10.1109/MCSoC57363.2022.00027

Projects/Grants/Consultancy

Title of the Project /Grant/ Consultancy	Duration	Start Date	End Date	Designation/ Role	Funding Agency/ Sponsorer	Grant Number	Status	Amount
Development of Security Audit Framework for Secure IoT Network	5 Years	March 2021	March 2026	Co-PI	DST (IIT Kanpur)		Ongoing	2.7 Crore
Design and Development of Dimensionality reduction techniques for cyber physical system	3 Years	Jan 2019	July 2022	PI	Department of Science and Technology, DST India		Completed	32 Lakhs
Science Technology and Innovation Hub in Information and Communication Technology (ICT)	3 Years	March 2022	Continue	Co-PI	SEED Division DST	DST/SEED/SCSP/STI/2019/136	Ongoing	1.86 Crore

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Dr. Adarsh Prasad Behera	Nonlinear Dimensionality Reduction Using Ricci Flow Embedding	IIITA	2022

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	Start Date	End Date	Role
6th Workshop on Machine Learning & Data Analytics (MLDA)	IIITA	20th June 2022	29th June 2022	Co-Ordinator
Self-Financed Course-cum Workshop on Time Series Data Analytics	Data Analytics Lab IIITA	14th may 2022	17th may 2022	Co-Ordinator

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Senior Member	2022-23
ACM	Member	2022-23
IEEE Computer Society, (U.P. Section)	Secretary	2022-23

Membership in Committee within IIITA

Type	Name of committee	Designation/ Role	Start Date
Admin	Store and Purchase	Associate Dean	-
Admin	Ek Bharat Shreshtha Bharat	Nodal Officer	-
Admin	CSTCP	Chairman	2022

Membership in Committee outside IIITA

Type	Name of the Institution	Name of the Committee	Designation/Role
Prayagraj Smart City Project (PSCL)	Prayagraj	Prayagraj Smart City Project	Advisor



21. Dr. Satish Kumar Singh

Designation: Associate Professor

Date of Joining: 01.01.2013

Department: Information Technology

Research Interests: Digital Image Processing, Data-compression, Biometrics Systems (Hand, Finger-print, Face, Multimodal, etc.), Pattern Recognition and Digital Image Watermarking

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	AdaInject: Injection Based Adaptive Gradient Descent Optimizers for Convolutional Neural Networks	Shiv Ram Dubey, S.H. Shabbeer Basha, Satish Kumar Singh, and Bidyut Baran Chaudhuri	IEEE Transactions on Artificial Intelligence	In press	2022	10.1109/TAI.2022.3208223
Journal	CSA-GAN: Cyclic Synthesized Attention Guided Generative Adversarial Network for Face Synthesis	Nand Kumar Yadav, Satish Kumar Singh, and Shiv Ram Dubey	Applied Intelligence, Springer	52:12704–12723	2022	10.1007/s10489-021-03064-0
Journal	Activation Functions in Deep Learning: A Comprehensive Survey and Benchmark	Shiv Ram Dubey, Satish Kumar Singh, and Bidyut Baran Chaudhuri	Neurocomputing, Elsevier	503:92-108	2022	10.1016/j.neucom.2022.06.111
Journal	MobileAR-GAN: MobileNet based Efficient Attentive Recurrent Generative Adversarial Network for Infrared to Visual Transformations	Nand Kumar Yadav, Satish Kumar Singh, and Shiv Ram Dubey	IEEE Transactions on Instrumentation and Measurement	71:5009909	2022	10.1109/TIM.2022.3166202
Journal	Deep CNN based Image Compression with Redundancy Minimization via Attention Guidance	Dipti Mishra, Satish Kumar Singh, and Rajat Kumar Singh	Neurocomputing, Elsevier	507:397-411	2022	10.1016/j.neucom.2022.08.009
Journal	MmLwThV framework: A masked face periocular recognition system using thermo-visible fusion	Nayaneesh Kumar Mishra, Sumit Kumar, and Satish Kumar Singh	Applied Intelligence, Springer	53(3): 2471–2487	2023	10.1007/s10489-022-03517-0
Conference	A Simple Mutual Information based Registration Method for Thermal-Optical Image Pairs applied on a Novel Dataset	Suranjan Goswami and Satish Kumar Singh	3rd International Conference for Emerging Technology (INCET), IEEE	-	2022	10.1109/INCET54531.2022.9824007
Conference	Face Spoofing and Presentation Attack Detection	Anubhab Nandy and Satish Kumar Singh	IEEE World Conference on Applied Intelligence and Computing (AIC)	-	2022	10.1109/AIC55036.2022.9848980
Conference	Vision Transformer Hashing for Image Retrieval	Shiv Ram Dubey, Satish Kumar	29th IEEE International	-	2022	10.1109/ICME52920.2022.98

		Singh, and Wei-Ta Chu	Conference on Multimedia and Expo (ICME)			59900
Conference	Resolution Invariant Face Recognition	Priyank Makwana, Satish Kumar Singh, and Shiv Ram Dubey	International Conference on Computer Vision and Machine Intelligence (CVMI), (Springer)	-	2022	10.1007/978-981-19-7867-8_58
Conference	Target Detection using Transformer: A study using DETR	Akhilesh Kumar, Satish Kumar Singh, and Shiv Ram Dubey	International Conference on Computer Vision and Machine Intelligence (CVMI), (Springer)	-	2022	10.1007/978-981-19-7867-8_59
Conference	An Object Aware Hybrid U-Net for Breast Tumour Annotation	Suvidha Tripathi and Satish Kumar Singh	Biomedical Signal and Image Processing with Artificial Intelligence, Springer	87-105	2022	10.1007/978-3-031-15816-2_5
Conference	Leveraging Tri-Planar Views and Weighted Average Fusion Technique to Classify Lung Nodule Malignancy	Samiksha Gupta, Satish Kumar Singh, and Xiaoyi Jiang	7th International Conference on Computer Vision and Image Processing (CVIP), Springer	-	2022	10.1007/978-3-031-31407-0_16
Conference	A Novel Deep Learning Method for Thermal to Annotated Thermal-Optical Fused Images	Suranjan Goswami, Satish Kumar Singh, and Bidyut Baran Chaudhuri	7th International Conference on Computer Vision and Image Processing (CVIP), Springer	-	2022	10.1007/978-3-031-31407-0_50
Conference	Diabetic Retinopathy Image Analysis Using Deep Learning Techniques	Naman Goel and Satish Kumar Singh	9th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)	-	2022	10.1109/UPCON56432.2022.9986469
Conference	Leveraging CNN and Transfer Learning for Classification of Histopathology Images	Achyut Dubey, Satish Kumar Singh, and Xiaoyi Jiang	4th International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND), Springer	-	2023	10.1007/978-3-031-24367-7_1
Conference	AdaNorm: Adaptive Gradient Norm Correction based Optimizer for CNNs	Shiv Ram Dubey, Satish Kumar Singh, and Bidyut Baran Chaudhuri	IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)	-	2023	10.1109/WACV56688.2023.00525

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation / Role	Funding Agency/ Sponsorer	Grant Number	Status	Amount
Thermo-Visible Deep Multimodal Ocular Biometric Recognition and Facial Thermal Profiling in COVID-19 Reality	2 Years	2022	2024	PI	DST, Govt. of India under India-Slovenia scheme		Ongoing	Rs. 1600000/-
Design of Efficient Descriptors for Biomedical Image Retrieval in Computer Assisted Diagnosis	2 Years	2021	2023	PI	DST, Govt. of India under DAAD scheme		Ongoing	Rs. 2000000/-

New Course Developed

Course Title	Course No.	Course Program
Visual Recognition	VRN/MVRN/PVRN	B.Tech / M.Tech / Ph.D.
Deep Learning	DEL/MDEL/PDEL	B.Tech / M.Tech / Ph.D.

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Nand Kumar Yadav	Image To Image Translation Using Generative Adversarial Networks	IIIT Allahabad	2023 (Thesis Submitted in Jan 2023)
Sumit Kumar		IIIT Allahabad	2022
Nayaneesh Mishra		IIIT Allahabad	2022

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
9th IEEE UP Section Conference (UPCON)	IIIT Allahabad	International	Dec 02, 2022	Dec 04, 2022	Conference General Chair
7th International Conference on Computer Vision and Image Processing (CVIP)	NIT Nagpur, India	International	Nov 04, 2022	Nov 06, 2022	Conference Convener
International Conference on Computer Vision and Machine Intelligence (CVMI)	IIIT Allahabad	International	Aug 12, 2022	Aug 13, 2022	Conference Chair
5th One-Week Self-Sponsored Short Term Course on Advances in Deep Architectures for Signal, Image & Vision Applications (ADASIVA)	IIIT Allahabad	National	August 08, 2022	August 13, 2022	Coordinator

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
Institute of Electrical and Electronics Engineers (IEEE)	Senior Member	2022-2023
International Association of Pattern Recognition (IAPR)	Member	2022-2023
International Association of Comp. Sci. and Infor. Tech. (IACSIT)	Member	2022-2023
International Association of Engineers (IAENG)	Member	2022-2023

Membership in Committee within IIITA

Type (Academic/Admin./Etc.)	Name of committee	Designation/Role	Start Date	End Date
Admin	Registrar (Acting)	Registrar (Acting)	Oct 2022	Present
Admin	Institute Ranking, Library & E-Library	Associate Dean	2022	2023

Membership in Committee outside IIITA

Type	Name of the Institution	Name of the Committee	Designation/Role	Start Date	End Date
Academic	IEEE UP Section	Executive Committee	Chair	2022	Present
Professional	IEEE UP Section	Signal Processing Society Chapter, IEEE Uttar Pradesh Section	Chair	2022	Present
Academic and Admin	IEEE	IEEE Student Branch, IIIT Allahabad	Faculty Mentor	2022	Present

Honours and Awards

Awarded Year	Award Name	Awarded by
2022	IAPR Best Paper Award	International Conference on Computer Vision and Machine Intelligence (CVMI)



22. Dr. Shailendra Kumar

Designation: Associate Professor
Date of Joining: 01.01.2013
Department: Management Studies
Research Interests: Corporate Finance, Investments, Capital Market

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/Issue	Year	DoI
Conference	Behavioral intentions to use technology and its impact on employee satisfaction in Indian banking sector	Fatima, M., Kumar, S.	International Multidisciplinary Conference on Research, Technology & Engineering [ImCReTE-2022] organized by KJEI's Trinity Academy of Engineering, Pune in Collaboration with Conference World and IARDO	(ISBN: 978-93-91535-28-5)	7-8 Apr 2022	pp.516-528.
Conference	Impact of Financial Efficacy and Financial Well-being on Employee Satisfaction through Remuneration: An empirical study	Mukherjee, A., Kumar, S	International Conference on Multidisciplinary Research in Engineering, Science, Management, Humanities and Education organized by Vedic Gurukul Institute of Engineering and Technology (VGIET), Jaipur, Rajasthan	(ISBN 978-93-91535-32-2)	7-8 May 2022	pp.52-62.
Conference	Performance Analysis of Cipla Pharmaceutical Company Stock during Pre and Post COVID-19	Srivastava, I., Kumar, S.	International Conference on Multidisciplinary Research in Engineering, Science, Management, Humanities and Education organized by Vedic Gurukul Institute of Engineering and Technology (VGIET), Jaipur, Rajasthan	(ISBN 978-93-91535-32-2)	7-8 May 2022	pp. 244-256.
Conference	Behavioral biases of real estate Investors: A survey of Literature	Singh, A., Kumar, S., and Goel, U.	International Conference on Contemporary Issues in Emerging Markets (CIEMC-2021) organized by Indian Institute of Management (IIM) Bodh Gaya in Collaboration with Waikato Management School, The University of Waikato New Zealand.	(ISBN 978-93-5768-063-9)	28-29 Oct 2022	pp. 182
Conference	Review of Online and Mobile based Financial Trading Planforms: Adoption and Investor Behavior	Hasan, S.M.A., Kumar, S., and Goel, U.	International Conference on Contemporary Issues in Emerging Markets (CIEMC-2021) organized by Indian Institute of Management (IIM) Bodh Gaya in Collaboration with Waikato Management School, The University of Waikato New Zealand.	(ISBN 978-93-5768-063-9)	28-29 Oct 2022	pp. 194
Conference	Asset Class	Singh, A.,	International Conference on	(ISBN 978-	28-29	pp. 164

	Selection: A Review of Literature and Future Agenda	Goel, U. and Kumar, S.	Contemporary Issues in Emerging Markets (CIEMC-2021) organized by Indian Institute of Management (IIM) Bodh Gaya in Collaboration with Waikato Management School, The University of Waikato New Zealand.	93-5768-063-9)	Oct 2022	
Journal	Exploring Customer Awareness towards Their Cyber Security in Kingdom of Saudi Arabia: A Study in the Era of Banking Digital Transformation	Johri, A., and Kumar, S.	Human Behavior and Emerging Technologies (Wiley-Hindawi Publication) (ISSN: 2578-1863) (ESCI & Scopus Indexed)	vol. 2023, Article ID 2103442, 10 pages,	Jan 2023	10.1155/2023/2103442
Journal	Blockchain Technology for Sustainable Development: A Systematic Literature Review	Joshi, P., Tewari, V., Kumar, S., and Singh, A.	Journal of Global Operations and Strategic Sourcing, ISSN 2398-5364 (Emerald Publication) (SCOPUS, ESCI & ABDC INDEXED)	In Press	Feb 2023	10.1108/JGOSS-06-2022-0054
Journal	Impact of corporate hedging practices on firms value: An Empirical Evidence from Indian MNCs	Das, J.P., and Kumar, S.	Risk Management, (Palgrave Macmillan Publication) ISSN 1460-3799 (Print) ISSN 1743-4637 (Online). (SSCI, ABDC & Scopus Indexed)	vol. 25, No. 2, Article No. 10,	Jan 2023	10.1057/s41283-023-00115-3
Journal	The dynamic effect of corporate financial hedging on firms' Value: The case of Indian MNCs	Das, J.P., and Kumar, S.	Borsa Istanbul Review, (Elsevier Publication) ISSN 2214-8450 (Print). (SSCI & Scopus Indexed),	In Press	Jan 2023	10.1057/s41283-023-00115-3
Book Chapter	When Sustainable Development Embraces Blockchain: A Systematic Literature Review	Joshi, P., Singh, A., Kumar, S., Agarwal, P., and Joshi, G., Aggarwal, A., Gupta, S. K.	In: Kulkarni, A.J., Mirjalili, S., Udgata, S.K. (eds) Intelligent Systems and Applications. Lecture Notes in Electrical Engineering (Springer, Singapore)	vol 959 pp. 467-482	Jan 2023	10.1007/978-981-19-6581-4_37
Journal	Social media influence on the investor behaviour - An emerging market perspective	Agarwal, S., Kumar, S., and Goel, U.	Journal of Business Economics and Management		March 2023	10.3846/jbem.2021.15619

Sponsored Research Project:

1. Co- Researcher in a Sponsored research project titled "Exploring Customers Awareness towards their cyber Security in Kingdom of Saudi Arabia: A Study in the Era of Banking Digital Transformation" at Saudi Electronic University, Riyadh funded by Ministry of Higher Education, Kingdom of Saudi Arabia sanctioned on March, 2021 (Completed in January 2023)

2. Project Director in ICSSR Sponsored Research Project titled "Social Media Presence and Information & Communication Technology (ICT) Adoption Status for improving competitiveness in MSME Sector: A Study of U.P" sanctioned in March, 2022 (On going).

Seminar/ Invited Talk

1. Delivered an Expert Lecture on the topic "Theory building for hypothesis specification in social science studies" duringb 3 days online workshop on 'Crafting Research via Industry-Academia Interface", held at Department of Management Studies, Indian Institute of Information Technology (IIIT-A) Allahabad on May 26th, 2022.
2. Delivered an Expert Lecture on the topic "Regression Analysis" during 3 days online workshop on 'Crafting Research via Industry-Academia Interface", held at Department of Management Studies, Indian Institute of Information Technology (IIITA) Allahabad on May 26th, 2022.
3. Chaired a session for Management (Finance Area) Track in International Conference (virtual) on Interdisciplinary Approaches towards Socio-Economic Inclusiveness for Sustainable Development (ICSISD 2022) organized by University School of Business, Chandigarh University on June 3-4, 2022.
4. Delivered an Invited Expert lecture on the topic "Financial Management of Startups" under Meity, E&ICT IIT Roorkee and IEEE Uttar Pradesh Section sponsored FDP on "Techno- Entrepreneurship Training (TETFDP) Program" organized by Department of Management Studies, IIITA on 17th September 2022.
5. Invited as a Distinguished speaker on the topic "Designing the Research Archetype: Unlocking the Power of Exploration" during 3rd Doctoral Research Conclave on "The Power of Research in the Changing Global Scenario" organized by Amity Business School, Amity University Uttar Pradesh on 01st December, 2022.

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
Crafting Research via Industry-Academia Interface	Dr. Shailendra Kumar, Dr. Utkarsh Goel, Dr. Parikshit Joshi	National	26 May 2022	28 May 2022	Organizer and Resource Person

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Member	2022-23
European Finance Association	Member	01 Jan 2023- 31 Dec 2023

Membership in Committee within IIITA

Type	Name of committee	Designation/Role	Start Date	End Date
Administrative	Investment Committee	Member	20/12/2022	Till Date
Administrative	MBA Admission Committee	Coordinator	04/01/2023	Till Date



23. Dr. Sonali Agarwal

Designation: Associate Professor

Date of Joining: 08.10.2009

Department: Information Technology

Research Interest: Advance data mining, Big data mining, Big data storage and computing tools, Support vector machine, Twin support vector machine, Data mining applications in healthcare and E-governance

Publication

Type	Paper Title	Author(s)	Journal Title	Year
Journal	RCA-IUnet: a residual cross-spatial attention-guided inception U-Net model for tumor segmentation in breast ultrasound imaging	Punn, Narinder Singh; Agarwal, Sonali	Machine vision and applications	2022
Journal	CHS-Net: A Deep Learning Approach for Hierarchical Segmentation of COVID-19 via CT Images	Punn, Narinder Singh; Agarwal, Sonali	Neural processing letters	2022
Journal	Learning target class eigen subspace (LTC-ES) via eigen knowledge grid	Sonbhadra, Sanjay Kumar; Agarwal, Sonali; Nagabhushan, P.	Turkish journal of electrical engineering and computer sciences	2022
Journal	Empirical analysis of chronic disease dataset for multiclass classification using optimal feature selection based hybrid model with spark streaming	Tiwari, Sadhana; Agarwal, Sonali	Future generation computer systems-the international journal of eScience	2023
Journal	Semantic web-based diagnosis and treatment of vector-borne diseases using SWRL rules	Chandra, Ritesh; Tiwari, Sadhana; Agarwal, Sonali; Singh, Navjot	Knowledge-based systems	2023
Journal	Data Stream Management for CPS-based Healthcare: A Contemporary Review	Tiwari, Sadhana; Agarwal, Sonali	IETE technical review	2022
Journal	Modality specific U-Net variants for biomedical image segmentation: a survey	Punn, Narinder Singh; Agarwal, Sonali	Artificial intelligence review	2022
Journal	Semantic sensor network ontology based decision support system for forest fire management	Chandra, Ritesh; Agarwal, Sonali; Singh, Navjot	Ecological informatics	2022
Journal	Handling catastrophic forgetting using cross-domain order in incremental deep learning	Kumar, Ashutosh; Agarwal, Sonali	Journal of electronic imaging	2023
Journal	BT-Unet: A self-supervised learning framework for biomedical image segmentation using barlow twins with U-net models	Punn, Narinder Singh; Agarwal, Sonali	Machine learning	2022
Journal	Astronomical big data processing using machine learning: A comprehensive review	Sen, Snigdha; Agarwal, Sonali; Chakraborty, Pavan; Singh, Krishna Pratap	Experimental astronomy	2022
Journal	Target-class guided sample length reduction and training set selection of univariate time-series	Sonbhadra, Sanjay Kumar; Agarwal, Sonali; Nagabhushan, P.	Applied intelligence	2022



24. Dr. Krishna Pratap Singh

Designation: Associate Professor

Date of Joining: 21.08.2009

Department: Information Technology

Research Interests: Machine Learning & Deep Learning: Representation Learning, Transfer Learning, Zero-shot and few shot Learning, GAN, RNN and LSTM. Applications: Natural Language Processing and Computer Vision. Optimization: Evolutionary Algorithms, Multi Objective Optimization, Optimization for Machine Learning

Publication

Type	Paper Title	Author(s)	Journal Title	Year
Journal	AdamR-GRUs: Adaptive momentum-based Regularized GRU for HMER problems	Pal, Aniket; Singh, Krishna Pratap	Applied soft computing	2023
Journal	Multi-level shared-weight encoding for abstractive sentence summarization	Lal, Daisy Monika; Singh, Krishna Pratap; Tiwary, Uma Shanker	Neural computing & applications	2022
Journal	R-GRU: Regularized gated recurrent unit for handwritten mathematical expression recognition	Pal, Aniket; Singh, Krishna Pratap	Multimedia tools and applications	2022
Journal	ICE: Information coverage estimate for automatic evaluation abstractive summaries	Lal, Daisy Monika; Singh, Krishna Pratap; Tiwary, Uma Shanker	Expert systems with applications	2022
Journal	Dealing with imbalanced regression problem for large dataset using scalable Artificial Neural Network	Sen, Snigdha; Singh, Krishna Pratap; Chakraborty, Pavan	New astronomy	2023
Journal	Astronomical big data processing using machine learning: A comprehensive review	Sen, Snigdha; Agarwal, Sonali; Chakraborty, Pavan; Singh, Krishna Pratap	Experimental astronomy	2022
Journal	A lightweight relation network for few-shots classification of hyperspectral images	Mishra, Anshul; Singh, Upendra Pratap; Singh, Krishna Pratap	Neural computing & applications	2023
Journal	NucNormZSL: nuclear norm-based domain adaptation in zero-shot learning	Singh, Upendra Pratap; Singh, Krishna Pratap; Thakur, Manoj	Neural computing & applications	2022
Journal	Meta-DZSL: a meta-dictionary learning based approach to zero-shot recognition	Singh, Upendra Pratap; Singh, Krishna Pratap; Thakur, Manoj	Applied intelligence	2022
Journal	A nuclear norm-induced robust and lightweight relation network for few-shots classification of hyperspectral images	Singh, Upendra Pratap; Singh, Krishna Pratap; Thakur, Manoj	Multimedia tools and applications	2023



25. Dr. Pramod Kumar

Designation: Associate Professor
Date of Joining: 03.09.2012
Department: Applied Sciences
Research Interests: Experimental condensed matter

Publication

Paper Title	Journal Title	DoI
Liquid Phase Exfoliated 2-D MoS2-Based Broadband Heterojunction Low-Powered Photosensor	IEEE Transactions on Electron Devices	10.1109/TED. 2023.3239041
Effect of Ni substitution on the structural, magnetic, and thermodynamic properties in Gd2−xNixIn(0≤x≤1) intermetallic compounds: An experimental and theoretical study	Intermetallics	10.1016/j.interm et .2022.107743
Investigation of RF sputtered, n-Bi2Se3 heterojunction on p-Si for enhanced NIR optoelectronic applications	Solar Energy Materials and Solar Cells	10.1016/j.solmat .2022.112028
An Energy Efficient, Mismatch Tolerant Offset Compensating Hybrid MTJ/CMOS Magnetic Full Adder	IEEE Transactions on Circuits and Systems	10.1109/TCSII .2022.3190455
Performance of Topological Insulator (Sb2Te3)-Based Vertical Stacking Photodetector on n-Si Substrate	IEEE Transactions on Electron Devices	10.1109/TED .2022.3181534
UV to NIR tunable photodetector using Bi2Te2Se/n-GaN heterojunction	Surfaces and Interfaces	10.1016/j.surfin .2022.102152
Lab-on-Paper Strip Chemical Sensor: Reversible Visible Sensor for Detection of Acids Using Naphthalenediimide Derivative	Derivative IEEE Sensors Journal	10.1109/JSEN .2022.3175503
A Highly Reliable, Dynamic Logic-Based Hybrid MTJ/CMOS Magnetic Full Adder for High-Performance and Low-Power Application	IEEE Transactions on Magnetics	10.1109/TMAG .2022.3159823
Modifications in the magnetocaloric effect owing to composition changes in Gd2In1−xGex (0 ≤ x ≤ 0.2) system of compounds	AIP Advances	10.1063/9. 0000289

New Course Developed

Course Title	Course Program
Fundamentals of Materials Informatics: Tools and Application	B. Tech (IT, ECE), M. Tech (IT, ECE, BI)

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Dr. Faizan Ahamad			

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
Physics Workshop	IIITA	National	18 March -2022	19 March-2022	Convener

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
Materials Synthesis and Characterization techniques	NIT Uttaarakhand	National	24.02.2023	03-03-2023	Invited Talk

One Week Training program on Sophisticated Instruments in Electronics Engineering	Department of Electronics Engineering, IIT (ISM) Dhanbad, India	National	23-05-2022	29-05-2022	Invited Talk
Faculty Development Program on Advanced Materials for Sensing and Energy Applications	Electronics and JCT Academy, IIT Roorkee	National	21-09-2022	25-09-2022	Invited Talk

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Senior Member	2022-2023
IAPT	Life member	
Magnetic society of india	Life member	
European magnetic society	Life member	
ICAM	Life member	

Membership in Committee within IIITA

Type	Name of Committee	Designation/Role
Admin	IIC	IIC Coordinator
Admin	Convocation 2023	Co-ordinator
Admin	Health sub-committee	Member



26. Dr. Akhilesh Tiwari

Designation: Associate Professor
Date of Joining: 29.08.2012
Department: Applied Sciences
Research Interests: Photonic Crystals, Plasmonics, Metamaterials, Simulation and Modeling

Publication

Type	Paper Title	Author (s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Numerical Analysis of Coronavirus Detection Using Photonic Crystal Fibre–Based SPR Sensor	Gupta A., Singh T., Singh R.K., Tiwari A.	*Plasmonics*	18	2023	10.1007/s11468-022-01761-1
Journal	Topologically protected multiple resonant modes in a one-dimensional photonic crystal heterostructure	Ankit Singh, Pramod Kumar, and Akhilesh Tiwari	Optical Society of America B	40/5	2023	10.1364/JOSAB.484720
Journal	Visible to near-infrared broadband photodetector employing thin film topological insulator heterojunction (p-$TlBiSe_2$/n-Si) diode	Gyanendra K Maurya, V Gautam, F Ahmad, R Singh, K Kandpal, R Kumar, M Kumar, P Kumar, Akhilesh Tiwari	Applied Surface Science	612	2023	10.1016/j.apsusc.2022.155813
Journal	An Extensive Review on β-lactamase Enzymes and Their Inhibitors	Agarwal, V., Tiwari, A., & Varadwaj, P.	*Current Medicinal Chemistry*	30/7	2023	10.2174/0929867329666220620165429
Journal	Evaluation of water vapor condensation using the thermoelectric cooling technique by experimental and theoretical observations	Dinesh Kumar, Akhilesh Tiwari and Jean-Pierre Fontaine	*Physics of Fluids*	34	2022	10.1063/5.0106434
Journal	Insights into structure and activity relationship of clinically mutated PER1 and PER2 class A β-lactamase enzyme	Agarwal, V., Yadav, T.C., Tiwari, A., Varadwaj, P.	Journal of Biomolecular Structure and Dynamics	41/10	2022	10.1080/07391102.2022.2066179
Conference	Enhancement of rainbow trapping in double interface one dimensional topological photonic crystal	A Singh, P Kumar, A Tiwari,	International conference on Frontier in Optics and 19 Laser Sciences, Rochester, New York, USA		2022	
Conference	Robust edge states for Vis-IR frequency bands of 1D topological photonic crystal	A Singh, P Kumar, A Tiwari,	Copaq-2022, XLV Symposium of the Optical Society of India, IIT Roorkee		2022	

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Dinesh Kumar	An Experimental & Mathematical Investigation of Water Vapour Condensation from Humid Air and Its Characteristic Analysis	IIIT Allahabad	2022
Vidhu Agarwal	Insights into structural and functional study of antibiotic resistance	IIIT Allahabad	2023

Membership in Professional Bodies

Professional Body Name	Member Type	Membership Year
IEEE	Senior Member	2021-2023
Indian Association of Physics Teachers (IAPT)	Life Member	
OPTICA (Formerly OSA)	Member	2021-2023
The Biotech research Society (BRSI)	Life Member	
American Institute of Aeronautics and Astronautics (AIAAA)	Sessional Member	
Photonics Society of India (PSI)	Life Member	

Membership in Committee within IIITA

Type	Name of Committee	Designation/Role	Start Date	End Date
Administration/Academic	Coordinating Head (First Year B. Tech.)	Head	01-07-2019	Till date
Administration	Officer on Special Duties (OSD)	OSD	08-012-2022	Till date
Administration	Chief Proctor	Chief Proctor	08-09-2022	Till date
Administration	Annual Stock Verification Committee	Chair		
Administration	Gymkhana	CEC	2017	2022
Administration	AC Maintenance Committee	Chairman	2015	2022

Membership in Committee outside IIITA

Type	Name of the Institution	Name of the Committee	Designation/ Role	Start Date	End Date
Administration	IEEE	Executive Committee	Secretary	01-01-2022	31-12-2023
Administration	IAPT (RC-4)	Executive Committee	Secretary	01-01-2022	31-12-2024
Administration	IEEE Photonics Society	Executive Committee	Chairman	01-01-2021	31-12-2023
Academic	CSJM University kanpur	Board of Studies	Member	01-07-2022	



27. Dr. S. Venkatesan

Designation: Associate Professor

Date of Joining: 09.09.2009

Department: Information Technology

Research Interests: NIS, Cloud Computing and Social Network Privacy, Mobile Agent Security, Cyber Security

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Storage Efficient Blockchain Models for Constrained Applications	Yuvaraj Rajendra, Sachin Sahu, Venkatesan Subramanian and Sandeep Kumar Shukla	Journal on Cluster Computing, Springer	-	2022	10.1007/s10586-022-03804-y
Journal	A Concept Map based Teaching of Compiler Design for UG Students	Venkatesan Subramanian, Kalaivany Karthikeyan, Pallapa Venkataram	EAI Endorsed Transactions on e-Learning	8/1	2022	10.4108/eetel.v8i1.2550
Journal	A secure searchable encryption scheme for cloud using hash-based indexing	Nitish Andola, Sourabh Prakash , Vijay Kumar Yadav, Raghav, S. Venkatesan, Shekhar Verma	Journal of Computer and System Sciences	126	2022	10.1016/j.jcss.2021.12.004
Conference	BlockPaaS: Blockchain Platform as a Service	Yuvaraj Rajendra, Venkatesan Subramanian and Sandeep Kumar Shukla	15th International Conference on COMmunication Systems and NETworkS - COMSNETS 2023	-	2023	10.1109/COMSNETS56262.2023.10041392
Conference	TrustSim: A Decentralized Reputation and Trust Model Simulator	S. Venkatesan, Sandeep Kumar Shukla and Yuvaraj Rajendra	Fourth International Conference on Blockchain Computing and Applications 2022	-	2022	10.1109/BCCA55292.2022.9921895

New Course Developed

Course Title	Course No. (if any)	Course Program
Cyber Physical System Security	-	M.Tech (CLIS)

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
5th Workshop Machine Learning and Data Analytics	IIIT Allahabad and Victoria University Australia	International	20th June 2022	29th June 2022	Co-ordinator

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
Indo-German Workshop	IIIT Allahabad and Hof University of Applied Sciences, Germany	International	4th July 2022	7th July 2022	Speaker

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Senior Member	2023
ACM	Member	2022-2023

Membership in Committee within IIITA

Type	Name of committee	Designation/Role	Start Date	End Date
Academic	DPGC(IT)	Convener	August 2021	August 2022
Academic	DPGC(IT)	Member	August 2022	Till date
Administrative	Network and CCF Committee	A. Dean (NMHC)	4th January 2021	Till date
Administrative	STC-I	Member	13th August 2021	Till date

Membership in Committee outside IIITA

Type	Name of the Institution	Name of the Committee	Designation/ Role	Start Date	End Date
Academic	Coimbatore Institute of Technology, Coimbatore, Tamilnadu	Board of Studies, Department of CSE	Member	16th October 2020	Till date

Honours and Awards

Awarded Year	Award Name	Awarded by
2022	Associate Fellow	C3i Hub, IIT Kanpur



28. Dr. Nidhi Mishra

Designation: Associate Professor
Date of Joining: 19.10.2012
Department: Applied Sciences
Research Interests: Drug Development, Nanotechnology, Cancer Biology, Computational Biology, Medicinal Chemistry

Publication

Type	Paper Title	Author(s)	Journal Title	Year	DoI
Research Article	Silica from Waste Rice Husk and its Polymeric Hydrogel-Based Composite Filler: Synthesis, Characterization, and Antibacterial Activity	Shagun Varshney, Akhilesh Kumar Maurya, Akash Kanaujia, Nidhi Mishra	Advances in Materials and Processing Technologies	2023	10.1080/2374068X.2023.2193448.
Research Article	An Interaction Network Driven Approach for Identifying Cervical, Endometrial, Vulvar Carcinomic Biomarkers and Their Multi-targeted Inhibitory Agents from Few Widely Available Medicinal Plants	Anamika Mishra, Viswajit Mulpuru, Nidhi Mishra	Applied Biochemistry and Biotechnology	2023	10.1007/s12010-023-04441-w
Research Article	Computational drug designing, synthesis, characterization and anti-bacterial activity evaluation of some mixed ligand-metal complexes of 2-hydroxybenzaldehydethiosemicarbazone as primary ligand	Saima Zehra; Nidhi Mishra; Rubina Lawrence; Akhilesh Maurya; Shraddha Singh; Ebenezer, Tahmeena Khan; Saman Raza	Chemistry Africa	2023	10.1007/s42250-023-00640-4
Research Article	Neolamarckia cadamba (Roxb.) Bosser (Rubiaceae) extracts: promising prospects for anticancer and antibacterial potential through in vitro and in silico studies	Anamika Mishra, Santosh Kumar Maurya, Anirudh Singh, Hifzur Siddique, Sintu Kumar Samanta, and Nidhi Mishra	Medical Oncology	2023	10.1007/s12032-023-01971-5
Research Article	Structure-guided Design and Optimization of small Molecules as Pancreatic Lipase Inhibitors using Pharmacophore, 3D-QSAR, Molecular Docking, and Molecular Dynamics Simulation Studies	Shristi Modanwal, Viswajit Mulpuru and Nidhi Mishra	Current Computer-Aided Drug Design	2023	10.2174/1573409919666230103144045
Research Article	Narirutin. A flavonoid found in citrus fruits modulates cell cycle phases and inhibits the proliferation of hormone-refractory prostate cancer cells by targeting hyaluronidase	Shilpi Singh, Akhilesh Kumar Maurya, Abha Meena, Nidhi Mishra, and Suaib Luqman	Food and Chemical Toxicology	2023	10.1016/j.fct.2023.113638
Research Article	Coumarin-based combined computational study to design novel drugs against Candida albicans	Akhilesh Kumar Maurya, Nidhi Mishra	Journal of Microbiology	2022	10.1007/s12275-022-2279-5
Research	Synthesis and characterization of	Akhilesh Kumar	Materials Physics	2022	10.18149/M

Article	polymeric hydrogel-based nanoporous composite and investigation of its temperature-dependent drug release activity	Maurya, Shagun Varshney, Nidhi Mishra	and Mechanics.		PM.5022022_8
Research Article	Identification of SARS-CoV-2 inhibitors through phylogenetics and drug repurposing	Anamika Mishra, Viswajit Mulpuru, Nidhi Mishra	Structural Chemistry	2022	10.1007/s11224-022-02019-6
Research Article	Exploring the mechanism of action of podophyllotoxin derivatives through molecular docking, molecular dynamics simulation and MM/PBSA studies.	Anamika Mishra, Viswajit Mulpuru, Nidhi Mishra.	Journal of Biomolecular Structure and Dynamics	2022	10.1080/07391102.2022.2138549
Research Article	Role of lupeol in chemosensitizing therapy-resistant prostate cancer cells by targeting MYC, β-catenin and c-FLIP: in silico and in vitro studies	Santosh Kumar Maurya, Homa Fatma, Akhilesh Kumar Maurya, Nidhi Mishra, and Hifzur R. Siddique.	In Silico Pharmacology	2022	10.1007/s40203-022-00131-3
Research Article	Development of QSAR model using machine learning and molecular docking study of polyphenol derivatives against obesity as pancreatic lipase inhibitor	Shristi Modanwal, Akhilesh Kumar Maurya, Saurav Kumar Mishra, and Nidhi Mishra.	Journal of Biomolecular Structure and Dynamics	2022	10.1080/07391102.2022.2109753
Research Article	In silico screening of potential drug against MDR genes (PfCRT/PfMDR1) responsible for Malaria	Shristi Modanwal, Vishal Mugetia and Nidhi Mishra	Research Journal of Chemistry and Environment	2022	10.25303/2611rjce0760100
Research Article	Coumarin-based combined computational study to design novel drugs against Candida albicans	Akhilesh Kumar Maurya, and Nidhi Mishra	Journal of Microbiology	2022	10.1007/s12275-022-2279-5
Research Article	Microwave-assisted synthesis of magnesium oxide nanoflakes via green chemistry approach using Ficus Racemosa leaf extract: characterization and antibacterial activity	Shagun Varshney, Abhishek Nigam, Nidhi Mishra, and S. J. Pawar.	Journal of the Korean Ceramic Society	2022	10.1007/s43207-022-00236-7
Book Chapter	"Pyridine-based polymers and derivatives: Synthesis and applications." In Recent Developments in the Synthesis and Applications of Pyridines	Shagun Varshney and Nidhi Mishra.	Elsevier Recent Developments in the Synthesis and Applications of Pyridines	2023	10.1016/B978-0-323-91221-1.00012-9
Book Chapter	Computational Drug Discovery Against COVID-19.	Shristi Modanwal, Viswajit Mulpuru, Nidhi Mishra.	COVID-19: Origin, Impact and Management, Bentham Science	2023	10.2174/9789815165944 1230101
Book Chapter	Methods in Drug Repurposing: Emphasis on COVID-19	Akhilesh Kumar Maurya, Nidhi Mishra	COVID-19: Origin, Impact and Management, Bentham Science	2023	10.2174/9789815165944 1230101

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Viswajit Mulpuru	Antimicrobial Peptides and Bioactive Compounds from Natural Sources against Antimicrobial Resistance through a Multipronged Bioinformatics approach.	IIIT Allahabad	2023

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
Two-week FDP on computational biology in therapeutics and theranostics	Chemistry Lab, Department of Applied Science, IIIT Allahabad	National	10th October 2022 (online mode) and 17th October 2022 (offline mode).	15th October 2022(online mode) 21st October 2022 (Offline mode)	Coordinator

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
2nd International Conference on Natural Products and Human Health – 2022	Deshbandhu College, University of Delhi	International	4-11-2022	6-11-2022	Paper presenter
Schrodinger Conference Bits Goa	Schrodinger Confrence and Bits Goa	International	10 November, 2022	11th November, 2022	Paper presenter

Honours and Awards

Awarded Year	Award Name	Awarded by
2022	Award of Excellence for best poster presentation	Deshbandhu College, University of Delhi
2022	Women Researcher Award	VDGOOD Professional Association



29. Dr. Amit Prabhakar

Designation: Associate Professor
Date of Joining: 30.10.2012
Department: Applied Sciences
Research Interests: BioMEMS, Biomedical Engineering, Biosensors, Microfluidics

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/Issue	Year	DoI
Book Chapter	Design and Fabrication of a Cost-Effective, Electrochemical Detection Based, Polymeric Capillary-Electrophoresis Microfluidic Devices for Diverse Bioanalytical Functions	Amit Prabhakar, Deepti Verma, Nimisha Roy, Prashant Nayak and Soumyo Mukherji,	Published in: Micro and Nanoelectronics Devices, Circuits and Systems, Publisher: Springer Singapore	pp 291–305 (LNEE, volume 781)	2022.	10.1007/978-981-16-3767-4_28
Journal	Cost-effective microabsorbance detection-based nanoparticle immobilized microfluidic system for potential investigation of diverse chemical contaminants present in drinking water,	Neha Mishra, Amar Dhwaj, Deepti Verma, Amit Prabhakar,	Analytica Chimica Acta,	Volume 1205, 2022, 339734.	2023	10.1016/j.aca.2022.339734
Journal	3D-Printed Impedance Micropump for Continuous Perfusion of the Sample and Nutrient Medium Integrated with a Liver-On-Chip Prototype.	Dhwaj, A., Roy, N., Jaiswar, A., Prabhakar, A., & Verma, D.	ACS omega,	7(45), 40900-40910.	2022	10.1021/acsomega.2c03818
Book Chapter	Nanobiosensor-Based Microfluidic Point-of-Care Platforms: Fabrication, Characterization, and Applications In book: Nanobiosensors for point-of-care medical diagnostics	Roy, N., Jaiswal, S., Dhwaj, A., Verma, D., & Prabhakar, A.	Singapore: Springer Nature Singapore.	(pp. 233-256).	2023	10.1007/978-981-19-5141-1_11
Journal	A Review on the Various Mechanisms of Green Synthesis of Metal Nanoparticles for Biomedical Applications. Current	Jaiswal, S., Roy, N., Dhwaj, A., Verma, D., & Prabhakar, A.	Green Chemistry,	9(2), 62-73.	2022	10.2174/2213346 1106662 21028143409
Journal	Distinctive Sugar 3D Printing approach for creating Artificial Blood vascular network inside composite Hydrogel matrix using Custom-made Extruder	Dhwaj, A., Roy, N., Jaiswar, A., Prabhakar, A., & Verma, D.	Biofabrication,	*Recently Accepted*	2023	(*BF-104400.R1*) [Impact Factor: 11.061].

Book Chapter	Chapter: The Revolutionary Potential of Noble Metal Nanoparticles as Anti-Cancer Agents: State-Of-The-Art Applications and Future Perspectives	N Roy, A Jaiswar, A Prabhakar, D Verma.	Frontiers in Clinical Drug Research - Anti-Cancer Agents	Vol. 6(2022). (To appear)	2022	10.2174/97898114784371200601
Book Chapter	Book Chapter: Characterization/Processing and synthesis strategies/applications of smart biomaterials as sustainable materials'	S Jaiswal, N Roy, A Prabhakar, D Verma,	in book entitled "Advances in sustainable materials: fundamentals, modelling and characterization" to be published by Elsevier, 2023	2023	2023	(To appear)
Journal	An Economical and Eco-Efficient Ammonium Chloride Catalyzed Friedländer Condensation: A Study of Microwave-Assisted Versus Conventional Heating,	Gyanendra Chaudhary; Brijesh Kumar; Kanhaya Lal; Amar Dhawz; Amit Prabhakar; Deepti Verma,	ChemistrySelect	Manuscript number: slct.202301042R1 (Recently Accepted)	2023	(To appear)

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation/ Role	Funding Agency/Sponsorer	Status	Amount
A Portable Corona-Discharge System with Custom Made Electrodes for PDMS Hydrophilic Treatment & Bonding for Microfluidic Chip Fabrication.	3 Year	March 2019 to	March 2023	Mentor	*NewGen IEDC (New Generation Innovation and Entrepreneurship Development Centre) Start-up projects	Running	2.5 Lakhs
Cost-Effective Micro Impedance Pump For Potential Application in the Micro-fluidics & Bio-Medical Domain.	3 Year	March 2019 to	March 2023	Mentor	*NewGen IEDC (New Generation Innovation and Entrepreneurship Development Centre) Start-up projects	Running	2.5 Lakhs
Blue EV-low cost custom Electric Bike.	3 Year	March 2019 to	March 2023	Mentor	*NewGen IEDC (New Generation Innovation and Entrepreneurship Development Centre) Start-up projects	Running	2.5 Lakhs
Advanced Prosthetics using 3D printing and	3 Year	March 2019 to	March 2023	Mentor	*NewGen IEDC (New Generation	Running	2.5 Lakhs

SEMG.					Innovation and Entrepreneurship Development Centre) Start-up projects		
Primary Healthcare Drone for Health Checkups and Sample transportation at remote location	3 Year	March 2022	March 2025	Mentor	*NewGen IEDC (New Generation Innovation and Entrepreneurship Development Centre) Start-up projects	Running	2.5 Lakhs
'Paper-Microfluidics Technology for the Biomedical Applications and Point-of-Care Devices	3 Year	March 2022	March 2025	Mentor	*NewGen IEDC (New Generation Innovation and Entrepreneurship Development Centre) Start-up projects	Running	2.5 Lakhs

Patent/Copyright

Title of the Patent/ Copyright	Inventor(s)	Assignee / Organisation	Application Number	Filing Country	Subject Category	Filing Date
Microfabrication of metal nanoparticle coated shape-encoded magnetic microparticles for application in multiplexed bioassays and chemical catalysis	Dr. Amit Prabhakar, Amar Dhwaj, Ankur Jaiswar, Nimisha Roy, Dr. Deepti Verma	IIIT Allahabad	Application No.: 202211005459;	Indian	Biomedical Engineering	PATENT FILED on 2/1/2022;
Fabrication of fully micro-vascularized biopolymer matrix using various sacrificial microstructures for tissue-engineering and bio-microfluidics applications	Dr. Amit Prabhakar, Amar Dhwaj, Dr. Deepti Verma		Application No.: 202211005458;	Indian	Biomedical Engineering	PATENT FILED on 2/1/2022;
A device and method to design a cost-effective organ-on-chip prototype for drug toxicity testing in lung and liver tissues	Dr. Amit Prabhakar, Nimisha Roy, Jyoti Kashyap, Prof Rakesh Kumar Tyagi, Dr. Deepti Verma.		Australian Innovation Patent: 2021104949	Australian Innovation Patent	Biomedical Engineering	PATENT FILED on 8/4/2021; Patent Granted in 2022;
Orally administered osmotic pump for drug delivery at a controlled rate	Dr. Amit Prabhakar Komal Sharma Sonal Jaiswal Dr. Deepti Verma		Application No.: 202311023284	Indian	Biomedical Engineering	Filed on: 3/23/2023

Development of a biomimetic microfluidic respiratory assist device-unit with high gas permeance	Dr. Amit Prabhakar Ankur Jaiswar Priyanka Kumari Dr. Deepti Verma		Application No.: 202311023285	Indian	Biomedical Engineering	Filed on: 3/23/2023
Green synthesized silver nanoparticles immobilized poly (?-caprolactone) and nanocellulose based biocomposites for wound healing	Dr. Nidhi Mishra Shagun Varshney Amar Dhwaj Dr. Amit Prabhakar		Application No.: 202311020456	Indian	Biomedical Engineering	Filed on: 3/23/2023

New Course Developed

Course Title	Course No. (if any)	Course Program
Biomedical Micro Electro Mechanical System (Biomems)	BBMEMS	B.Tech 7th Semester

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Nimisha Singh Year of Enrollment: 2017	A Hepatic Cell-On-Chip Platform For Drug And Toxicity Testing	IIIT Allahabad	Year of Enrolment: 2017 Thesis Submitted in 2022 and PhD Viva-Voce Awaited within a July 2023
Amar Dhwaj Year of Enrollment: 2018	Customization of The 2D/3D CNC-System for the Microfabrication of Precise Polymeric Microstructures used for Biomedical Application	IIIT Allahabad	Year of Enrolment: 2018 Thesis Submitted in July 2023
Sonal Jaiswal Year of Enrollment: 2020	Paper-fluidics Devices for Biochemical Analysis	IIIT Allahabad	Year of Enrolment: 2020
Priyanka Kumari Year of Enrollment: 2020	3-D printed biomaterials for biomedical application	IIIT Allahabad	Year of Enrolment: 2020

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
"Intellectual Property Rights Awareness Program"	"Intellectual Property Rights Cell, IIITA" with "The Patent Office, Kolkata" under the Department for Promotion of Industry & Internal Trade (DPIIT), Ministry of Commerce & Industry	National	26th July 2022	26th July 2022	Organizer
"Intellectual Property Rights Awareness Program",	under the flagship of the 'Kalam Program for Intellectual Property Literacy and Awareness' (KAPILA)	National	12 July 2022	12 July 2022	Organizer

	Campaign, hosted by the IPR-Cell, IIIT Allahabad				
AN Expert Talk by Prof. Soumyo Mukherji (FNAE, Madhuri Sinha Chair Professor in Biomedical Engineering, IIT Bombay, India.)	Dept. of Applied Sciences, IIIT Allahabad	National	06 December 2022	06 December 2022	Organizer

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
International Conference on Applications of Nanotechnology in Biology, Biotechnology and Biopharmaceutics (ICNB3)	B.S. Abdur Rahman Crescent Institute of Science and Technology, Tamil Nadu	National	August 11, 2022	August 12, 2022	Students' Poster Presentation: Prevention of Biofilm Infection on Implants by using Different Biomaterials: A Review
Advances in Biopolymers and Composites: Health, Environment, and Energy (ABC-HEE,2022)	MNNIT Allahabad	National	October 20, 2022	October 22, 2022	Students' Poster Presentation: Orthopaedic Biomaterials: A comprehensive review

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
National Innovation and Start-Up Policy, MIC	Coordinator	2022-2023
KAPILA: Kalam Program for IP Literacy and Awareness' Program (of the Ministry of Education)	Coordinator	2022-2023

Membership in Committee within IIITA

Type	Name of committee	Designation/ Role	Start Date	End Date
Academic	Committee for the evaluation of NewGen IEDC projects	NewGen IEDC member	2017	Continuing till date
Academic	DPGC (AS)	Member DPGC (AS)	2019	Continuing till date

Membership in Committee outside IIITA

Type	Name of the Institution	Name of the Committee	Designation/ Role	Start Date	End Date
Admin.	Member	Member of School Research Board - Vignan's Foundation for Science, Technology and Research University, Vadlamudi, Guntur Dist., Andhra Pradesh	12-10-2022	Continuing till date	



30. Dr. Ratan Kumar Saha

Designation: Associate Professor
Date of Joining: 20.01.2016
Department: Applied Sciences
Research Interests: Photoacoustic sensing, imaging; Tomography imaging; Machine learning

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/Issue	Year	DoI
Conference	Assessing role of sensor directivity in the photoacoustic tomography	Pankaj Warbal and Ratan K Saha	OPTICA Digital Library	P_CM15_08, CLEO-	2022	10.1364/CLEOPR.2022.P_CM15_08
Conference	Photoacoustic image reconstruction with polynomial based interpolation algorithms	Avijit Paul, Pankaj Warbal, Amrita Mukherjee, Subhadip Paul and Ratan K Saha	OPTICA Digital Library	P_CM15_09, CLEO-	2022	10.1364/CLEOPR.2022.P_CM15_09
Conference	System matrix approach for attenuation compensation in photoacoustic tomography	Pankaj Warbal and Ratan K Saha	SPIE Digital Library	1246332	2022	10.1117/12.2654123

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation / Role	Funding Agency/ Sponsorer	Grant Number	Status	Amount
Development of photo acoustic spectrum analysis protocol for morphological characterization of single cells	2 years	31-3-2023	30-3-2025	PI	DBT	BT/PR44547/MED/32/791 /2021	Ongoing	Rs.1848040/-

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Pankaj Warbal	Development of photoacoustic tomography algorithms for system independent imaging	IIIT Allahabad	2023

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
Medical Imaging 2023	SPIE	International	19/2/2023	19/2/2023	Presenter
PHASE 23	IIT Gandhinagar	International	30/3/2023	31/3/2023	Speaker

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
OPTICA, SPIE, IEEE	Regular	7

Membership in Committee within IIITA

Type	Designation/Role	Start Date	End Date
Administration	Head of the Department	July 2021	Till Date



31. Dr. Abhishek Vaish

Designation: Assistant Professor
Date of Joining: 09.05.2007
Department: Information Technology
Research Interests: Information Security, Cyber Law, Risk Management, Network Threat Protection

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/Issue /Page	Year
International Scientific Conference	A Comparative study of metamorphic malware detection techniques	Animesh Kumar Jha, Abhishek K Vaish, Simona Sternad Zabukovsek, Samo Bobek	6th FEB International Scientific Conference		2022/5
Book	Use of Machine Learning in Forensics and Computer Security	Nitish Ojha, Avinash Kumar, Neha Tyagi, Preetish Ranjan, Abhishek Vaish	Artificial Intelligence and Cyber Security in Industry 4.0	211-236	2023/6/14
Conference	Implementation of fuzzy logic model in InfoSec Risk Analysis in industrial information systems	Amanuel E., Zakoldaev DA, Vaish A	Advances in Science and Technology: collection of articles of the LII international scientific and practical conference	pp. 127-132	2023
Conference	Information security in the oil and gas industry: threats, risks, prevention measures	Amanuel E., Abhishek V	Modern Science: Actual Problems of Theory and Practice. Series: Natural and technical sciences	pp. 45-52	2022
Conference	Information security risk identification and Analysis techniques in industrial information system	Amanuel E., Abhishek V	XLV international scientific and practical Conference ISBN 978-5-6048247-4-0 - 2022	Vol. Part 1, pp. 104-108	2022

Projects/Grants/Consultancy

Title of the Project /Grant/ Consultancy	Duration	Start Date	End Date	Designation /Role	Funding Agency/ Sponsorer	Grant Number	Status	Amount
A Hybrid Platform for real time detection framework based on Cyber Indian Institute of Information Technology, Intelligence Framework	3 years	June, 2023	June, 2026	PI	Department of Science and Technology	DST/ICD/Indo-Slovenia/2022/03 (G)	Ongoing	15 lakhs

Patent/Copyright

Title of the Patent/ Copyright	Inventor(s)	Application Number	Filing Country	Filing Date	Status
Building security system with IoT sensors and machine learning	Dr Vishal Singh Chandel, Kumkum Dubey, Dr Tarun Kumar Gupta, Shivendu Mishra, Dr Amit Kumar Pandey, Ankush Pandey, Shivendra Kumar Pandey, Vivek Patel, Prince Rajpoot, Dr Abhishek Vaish, Ritika Yaduvanshi	20 2022 101 451.5	German Patent Office	18-Mar-2022	Filed



32. Dr. Pragya Singh

Designation: Assistant Professor
Date of Joining: 13.09.2012
Department: Management Studies
Research Interests: Marketing, Investment Management, Entrepreneurship Development & Emotional Intelligence

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI/ISSN
Information Technology Applications and Management (IITAMS) International ITAM Society Information Technology Applictions and Management Korea Data Strategy Society	"Determinants of Job Satisfaction: Analysis of Employ Responses in a Small-size Manufacturing Company in India"	Dr. Pragya Singh & Ms Saloni Singla	International Conference on IT Applications and Management	26	Feb 2023	2334-0114

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation /Role	Funding Agency/ Sponsorer	Grant Number	Status	Amount
E&ICT IIT Roorkee and I EEE Uttar Pradesh Joint Faculty Development Pro gram (Project Mode)	1 week	9 Sep 2022	13 Sep 2022	Coordinator	E&ICT IIT Roorkee and IEEE Uttar Pradesh	EICT-IITR& IEEE-UP/2022/007	Completed	Rs. 65000/-

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
26th Information Technology Applications and Management (IITAMS) International ITAM Society Information Technology Applictions and Management Korea Data Strategy Society	(IITAMS) International ITAM Society Information Technology Applictions and Management Korea Data Strategy Society	International	22 Feb 2023	25 Feb 2023	A discussant for the "Future of Asia" and participated in the meeting for international educational and research cooperation among organizing committee members from diverse countries.

Membership in Professional Bodies

Professional Body Name	Member Type	Membership Year
IEEE	Yearly Membership	Since 2021
ITAMS	Life Time Membership	Since 2022

Honours and Awards

Awarded Year	Award Name	Awarded by
March 2023	3rd best paper (Cash Prize) in Industrial Road Map of Uttarakhand: Vision 2025	Centre For Public Policy, Doon University Dehradun, Uttarakhand, India



33. Dr. Sitangshu Bhattacharya

Designation: Assistant Professor

Date of Joining: 04.06.2014

Department: Electronics and Communication Engineering

Research Interest: Computational nanoelectronics, Electronic structure theory, Density functional theory, 2D materials & Devices, Condensed matter theory

Publication

Type	Paper Title	Author(s)	Journal Title	Year
Journal	Large Exciton-Driven Linear and Nonlinear Optical Processes in Monolayers of Nitrogen Arsenide and Nitrogen Antimonide	Kolos, Miroslav; Verma, Rekha; Karlicky, Frantisek; Bhattacharya, Sitangshu	Journal of physical chemistry C	2022



34. Dr. Sangeeta Singh

Designation: Assistant Professor
Date of Joining: 31.10.2012
Department: Applied Sciences
Research Interests: Stem cells and neurodegenerative disorders

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Therapeutical growth in oligodendroglial fate induction via transdifferentiation of stem cells for neuroregenerative therapy	Shrey Dwivedi, Princy Choudhary, Ayushi Gupta, Sangeeta Singh	Biochimie	211, 35-56	2023	10.1016/j.biochi.2023.02.012
Journal	In silico identification of potential γ-secretase inhibitor of marine-algal origin: an anticancer intervention.	Atul Kumar Singh, Princy Choudhary, Sangeeta Singh, and Shashank Kumar	*Molecular Simulation*	49:3, 314-323	2022	10.1080/08927022.2022.2159053
Journal	Evaluation of phytoconstituents of Tinospora cordifolia against K417N and N501Y mutant spike glycoprotein and main protease of SARS-CoV-2-an in silico study	Choudhary, Princy, Tanu Singh, Ayush Amod, and Sangeeta Singh	*Journal of Biomolecular Structure and Dynamics*	41(9):4106-4123	2022	10.1080/07391102.2022.2062787
Journal	Modulation of GPCR receptors common to gut inflammatory diseases and neuronal disorders, Alzheimer's and Parkinson's diseases as druggable targets through Withania somnifera bioactives: an in silico study	Shukla, Richa, Sonu Pahal, Ayushi Gupta, Princy Choudhary, Krishna Misra, and Sangeeta Singh.	*Journal of Biomolecular Structure and Dynamics*	41(10): 4485-4503	2022	10.1080/07391102.2022.2068072
Journal	Network pharmacological evaluation of strigolactones efficacy as potential inhibitors against therapeutic targets of hepatocellular carcinoma.	Amod, Ayush, Sonu Pahal, Princy Choudhary, Ayushi Gupta, and Sangeeta Singh	*Biotechnology Letters,*	2022	44(7):879-900.	10.1007/s10529-022-03266-7.
Book chapter	Antimicrobial Peptides: Mechanism of Action." in Insights on Antimicrobial Peptides.	Tanu Singh, Princy Choudhary, and Sangeeta Singh	Intech Open, 10 Lower Thames Street, London, EC3R 6AF, UK	2022	23-42	10.5772/intechopen.99190

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
INDIACom-2023, 10th International Conference on "Computing for	Bharati Vidyapeeth's Institute of Computer	International	15 Mar	17 Mar	Oral presentation

Sustainable Global Development"2023	Applications and Management (BVICAM), New Delhi, India		2022	2022	
BIO Remedi 2022 (International Conference on Biomaterials, Regenerative Medicine and Devices), December	Indian Institute of Technology Guwahati, Assam, India	International	14 Dec 2022	18 Dec 2022	Oral presentation

Membership in Professional Bodies

Professional Body Name	Member type
Society for Biomaterials and Artificial Organs India	Life membership
Indian Academy of Neurosciences	Life membership

Membership in Committee within IIITA

Type	Name of Committee	Designation/Role	Start Date	End Date
Academic	Convocation 2022	Member		
Admin	Health Centre Advisory Committee	Member	12/01/2021	02/05/2023
Admin	Legal Committee	Member	22/10/2022	-



35. Dr. Sintu Kumar Samanta

Designation: Assistant Professor
Date of Joining: 16.03.2016
Department: Applied Sciences
Research Interests: Multidrug resistance and post-translational modifications in mycobacteria

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Neolamarckia cadamba (Roxb.) Bosser (Rubiaceae) extracts: promising prospects for anticancer and antibacterial potential through in vitro and in silico studies	Anamika Mishra, Santosh Kumar Maurya, Anirudh Singh, Hifzur Siddique, Sintu Kumar Samanta & Nidhi Mishra	Med Oncol.	40 (99)	2023	10.1007/s12032-023-01971-5
	Nanoengineering of biohybrid micro/nanobots for programmed biomedical applications. Colloids and Surfaces B: Biointerfaces	Saurabh Shivalkar, Pallabi Chowdhary, T. Afshan, Shrutika Chaudhary, A. Roy, S. K. Samanta, A. K. Sahoo	Colloids and Surfaces B: Biointerfaces	222:113054	2023	10.1016/j.colsurfb.2022.113054
	Ag NCs as a potent antibiofilm agent against pathogenic Pseudomonas aeruginosa and Acinetobacter baumannii and drug-resistant Bacillus subtilis by affecting chemotaxis and flagellar assembly pathway genes	Anirudh Singh, Komal Rani, Vibha Tandon, Amaresh Kumar Sahoo, Sintu Kumar Samanta	Biomater Sci.	10(23)	2022	6778-6790 10.1039/d2bm01399a
	Biomass-derived carbon dots as an emergent antibacterial agent	Md. Tariq, A. Singh, N. Varshney, S. K. Samanta, Md Palashuddin Sk.	Materials Today Communications	33: 104347	2022	10.1016/j.mtcomm.2022.104347.
	Stress-responsive AMP Kinase like protein regulates encystation of Entamoeba invadens	Piyali Goswami, Sintu Kumar Samanta, Tarun Agarwal, Sudip Kumar Ghosh.	Mol Biochem Parasitol.	251:111507	2022	10.1016/j.molbiopara.2022.111507

Patent/Copyright

Title of the Patent/Copyright	Inventor(s)	Assignee / Organisation	Application Number	Filing Country	Filing Date	Status
A method for rapid detection of coronavirus with highly luminescent gold nanoclusters	T. Afshan, A. K. Sahoo, S. K. Samanta, Pritish Varadwaj, Amita Jain, Krishna Misra.	IIIT Allahabad	202211031810	India	03/06/2022	Filed

New Course Developed

Course Title	Course Program
Immunotechnology	Ph.D.

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Mr Anirudh Singh	Strategies to combat bacterial biofilm infections: A focus on the development of advanced nanocomposites and understanding their molecular mechanism of action	IIIT Allahabad	April, 2023

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
Computational biology in therapeutics and theranostics	Dr. Nidhi Mishra, Dr. Sintu Kumar Samanta	National	Oct 10, 2022	Oct 21, 2022	Co-convenor

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Life member	2022

Membership in Committee within IIITA

Type	Name of committee	Designation /Role	Start Date
Administrative	Departmental purchase committee	Convener	Running



36. Dr. B. S. Sanjeev

Designation: Assistant Professor

Date of Joining: 31.05.2005

Department: Applied Sciences

Research Interests: Bioinformatics, MD Simulations, Big Data, Structural Biology, Parallel Computing, MD Simulations

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation/Role	Funding Agency / Sponsorer	Status
GenomeIndia: Cataloguing the Genetic Variation in Indians	3 years	Jan-20202	Dec -2022 (ext Dec 2023)	Co PI	DBT	Ongoing
BIC	5 years	2022	2023	Co PI	DBT	Ongoing

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/International	Start Date	End Date	Role
BIC Workshop on MD simulations	BIC, IIITA	National	Feb 24, 2023	Feb 24, 2023	Organizer



37. Dr. Rahul Kala

Designation: Assistant Professor
Date of Joining: 19.03.2014
Department: Information Technology
Research Interests: Robot Motion Planning, Simultaneous Localization and Mapping

Publication

1. R. Kala (2023) Mission planning on preference-based expression trees using heuristics-assisted evolutionary computation, Applied Soft Computing 136, 110090.
2. R. Yadav, V. Pani, A. Mishra, N. Tiwari, R. Kala (2023) Locality-constrained continuous place recognition for SLAM in extreme conditions. Applied Intelligence 53, 17593–17609 (2023).
3. V. Malviya, R. Kala (2023) Socialistic 3D tracking of humans from a mobile robot for a 'human following robot' behaviour. Robotica 41(5): 1407-1435.
4. SMH Jafri, R. Kala (2023) Dynamic Head-on Robot Collision Avoidance Using LSTM. Neural Processing Letters 55:1173-1208
5. SMH Jafri, R. Kala (2022) End-to-end human inspired learning-based system for dynamic obstacle avoidance. Complex and Intelligent Systems 8: 5065-5086.
6. L. Kenye, R. Kala (2022) Feature-Based Correspondence Filtering Using Structural Similarity Index for Visual Odometry, International Journal of Pattern Recognition and Artificial Intelligence 36(9): 2255013.
7. L. Kenye, R. Kala (2022) Optimistic Motion Planning Using Recursive Sub- Sampling: A New Approach to Sampling-Based Motion Planning, International Journal of Interactive Multimedia and Artificial Intelligence, 7(4): 87-99.
8. H. Bhati, G. Suri, R. Kala, G. C. Nandi (2022) Simulation Aided Anticipatory Congestion Avoidance for Warehouses. In: 2022 IEEE 18th International Conference on Automation Science and Engineering (CASE), 2022, pp. 2062-2067, Mexico City, Mexico.
9. A. Malviya, R. Kala, (2022) Risk Modeling of the Overtaking Behavior in the Indian Traffic. In 2022 IEEE 25th International Conference on Intelligent Transportation Systems (ITSC), pp. 2882-2887, Macau, China.
10. S. Beohar, F. Heinrich, R. Kala, H. Ritter, A. Melnik, Solving Learn-to-Race Autonomous Racing Challenge by Planning in Latent Space, In: ICML'22 Workshop on Safe Learning For Autonomous Driving.
11. M. Vallecha, R. Kala (2022) Group and Socially Aware Multi-Agent Reinforcement Learning. In 2022 30th Mediterranean Conference on Control and Automation (MED), pp. 73-78, Athens, Greece.
12. A. Agrawal, D. Agarwal, M. Arora, R. Mahajan, L. Kenye, R. Kala (2022) SLAM and Map Learning using Hybrid Semantic Graph Optimization. In 2022 30th Mediterranean Conference on Control and Automation (MED), pp. 731-736, Athens, Greece.

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation / Role	Funding Agency/ Sponsorer	Status	Amount
Safe Human-aware Robot Navigation in Warehouses	1 year	9 Aug, 2022	9 Oct, 2023	Co-PI	IHub Foundation for Cobotics	Ongoing	50 lacs
Intelligent Grasp	3 years	11 Oct, 2021	11 Oct, 2024	Co-PI	IHub Foundation	Ongoing	100 lacs

Manipulation Technology Development in a Cobotics Framework Using Complex Manipulation					for Cobotics		

Patent/Copyright

Title of the Patent/Copyright	Inventor(s)	Assignee / Organisation	Application Number	Filing Country	Filing Date	Status
A warehouse management system using smart mobile robot pickers	GC Nandi, R. Kala	IIIT Allahabad	202311009245	India	13 Feb, 2023	Filed

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Vaibhav Malviya	Navigation with Cooperative Social Robots	IIIT Allahabad	2022

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
Workshop on Human Robot Interaction	IIIT Allahabad	National	24 Nov, 2022	26 Nov, 2022	Coordinator
Workshop on Human Robot Interaction	IIIT Allahabad	National	6 Aug, 2022	7 Aug, 2022	Coordinator

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
IEEE CASE 2022 (online)	IEEE	International	20 Aug, 2022	24 Aug, 2022	Presented a paper
IEEE ITSC 2022 (online)	IEEE	International	18 Sep, 2022	12 Oct, 2022	Presented a paper
IEEE MED 2022	IEEE	International	28th June, 2022	1st July, 2022	Presented a paper

Membership in Professional Bodies

Professional Body Name	Member Type	Membership Year
IEEE	Member	2023

Membership in Committee within IIITA

Type	Name of Committee	Designation/Role	Start Date	End Date
Admin.	Incubation	Coordinator	1.04.2022	21.09.2022

Membership in Committee outside IIITA

Type	Name of the Institution	Name of the Committee	Designation/ Role	Start Date	End Date
Academic	VIT Bhopal	BoS, B.Tech ECE (AI & Cybernetics)	Member	1.4.2022	31.03.2023



38. Dr. Vineet Tiwari

Designation: Assistant Professor
Date of Joining: 11.07.2016
Department: Management Studies
Research Interests: Sustainability and Supply Chain Management

Publication

- Ashok Kumar Kanaujiya, Vineet Tiwari (January 2023) "Water quality analysis of River Ganga and Yamuna using water quality index (WQI) during Kumbh Mela 2019, Prayagraj, India". Environment, Development and Sustainability.
- Vineet Tiwari, Amit Garg, Manmohan Kapshe, Aashish Deshpande, Saritha Vishwanathan, (January 2023),"Assessing possibilities for coal continuance in India under climate constraints", International Journal of Greenhouse Gas Control. 122 (2023) 103811.
- Ashok Kumar Kanaujiya & Vineet Tiwari, (November, 2022), "Are Mass Gathering Events Hot Spot for Spreading of Infectious Diseases: The Kumbh Mela Experience", Journal of Scientific & Industrial Research, DOI: 10.56042/jsir.v81i11.60324, Vol. 81, November 2022, pp. 1162-1172
- Upadhyay, Chandra; Tiwari, Vijayshri; Tiwari, Vineet (October, 2022), "Generation 'Z' willingness to participate in crowdshipping services to achieve sustainable last-mile delivery in emerging market", International Journal of Emerging Markets.
- Ashok Kumar Kanaujiya, Vineet Tiwari (April 2022) "Crowd Management and Strategies for Security and Surveillance During the Large Mass Gathering Events: The Prayagraj Kumbh Mela 2019 Experience". National Academy of Science Letters (April 2022) (Springer). 10.1007/s40009-022-01114-w.
- Ashok Kumar Kanaujiya, Vineet Tiwari (May 2022). "The Statistical Analysis to Find Correlation Between Mass Gathering Event and COVID-19 Pandemic Outbreak: The PrayagrajMagh Mela 2021 Experience", Proceedings of the National Academy of Sciences, India, Section, A: Physical Sciences. (May 2022) (Springer). 10.1007/s40010-022-00795-8.
- Chandra Kant Upadhyay, Vijayshri Tewari, Vineet Tiwari, (2022) "Does crowdsourcing services moderate effect on supply risk management performance in COVID-19 pandemic" Supply Chain Forum: An International Journal, (August, 2022) (Taylor & Francis). DOI: 10.1080/16258312.2022.2090274.

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Dr. Chandrakant Upadhyay	Evaluating the scope of Last-Mile Delivery (LMD) through crowdshipping application in urban & rural India	IIIT Allahabad	Completed in October 2022

Seminar/Conference/Workshop/STP/FDP/etc. organised

- Organized a workshop on Entrepreneurship Awareness Programme (EAP) at IIITA on 15-10-2022 in collaboration with MSME Department of Prayagraj (U.P.)

Membership in Professional Bodies

Professional Body Name	Member type	Membership Year
Society of Operations Management India	Life time	2020

Sponsored Research Projects

- DST Project - "Science Technology and Innovation Hub in Information and Communication Technology (ICT) at Indian Institute of Information Technology Allahabad (IIITA), Prayagraj Block, Prayagraj District, Uttar Pradesh State". March 2022.

Invited Talk

- Invited as resource person in a training programme for delivering lecture on "Scenario development for coal sector in India under climate constraints – Modelling and Analysis" on 09-03-2023 at NITTTR, Bhopal in Online Mode.
- Invited by the FPT University Ha Noi, Vietnam for exploring the possibilities of Academic and Research collaboration during 18th-24th July 2023.

Lab Development

- A lab on 'Supply Chain and Sustainability Research Lab" is now functional and under development by Dr. Vineet Tiwari



39. Dr. Prasanna Kumar Misra

Designation: Assistant Professor

Date of Joining: 25.06.2014

Department: Electronics and Communication Engineering

Research Interests: VLSI Technology, Semiconductor Device design, Analog/RF circuit design, VLSI system design, Hardware/Software Architecture codesign.

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	A Novel STT-SOT MTJ Based Nonvolatile SRAM for power gating applications	Sandeep Tripathi, Sudhanshu Chou dhary and Prasanna Kumar Misra	IEEE Transactions on Electron Devices,	69,11	2022	10.1109/TED. 2022.3140407
Journal	An Energy Efficient, Mismatch Tolerant Offset Compensating Hybrid MTJ/CMOS Magnetic Full Adder	Pratiksha Shukla, Pramod Kumar, Prasanna Kumar Misra	IEEE Transactions on Circuits and Systems II: Express Briefs	69,3	2022	10.1109/TCSII .2022.3190455
Conference	A Double-Resistive Feedback Active Inductor based Receiver Frontend using 40 nm CMOS Process for 28 GHz Applications", 2022	Pritesh Kumar Yadav and Prasanna Kumar Misra	IEEE INDICON			10.1109/INDI CON56171.20 22.10039933

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Dr. Pritesh Kumar Yadav	Design of Receiver Frontend Architectures with Improved Performance for mmWave Band Applications	IIIT Allahabad	2022
Dr. Ankita Verma	Performance Improvement Tehniques for mmWave Band Receiver Frontend using RFCMOS Technology	IIIT Allahabad	2022

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/International	Start Date	End Date	Role
STPVD 2022	Coordinator	Pan India	13 June 2022	July 9 2022	Coordinator

Membership in Professional Bodies

Professional Body Name	Member type	Membership Year
IEEE	Member	2022-2023

Membership in Committee within IIITA

Type	Name of committee	Designation/Role	Start Date	End Date
Admin	IIC	IPR Coordinator	May 2023	
Admin	Convocation 2023	Accommodation Committee	May 2023	Sept 2023
Admin	Council of Warden	Chairman, CoW	April 2023	April 2025



40. Dr. Abdullah Bin Abu Baker

Designation: Assistant Professor
Date of Joining: 21.07.2015
Department: Applied Sciences
Research Interests: Functional Analysis

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Kakutani's automorphism theorem for vector-valued bounded holomorphic functions	Abdullah Bin Abu Baker and Fernanda Botelho	Journal of Mathematical Analysis and Applications	524/2	2023	10.1016/j.jmaa.2023.127216

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation /Role	Funding Agency/ Sponsorer	Grant Number	Status	Amount
Characterization of Some Classes of Projections in Operator Spaces	3 years	10 January 2023	09 January 2026	PI	SERB	MTR/2022/000710	Ongoing	600,000/-



41. Dr. Srijit Bhattacharjee

Designation: Assistant Professor
Date of Joining: 18.07.2016
Department: Applied Sciences
Research Interests: Classical and Quantum Aspects of Gravity, Quantum Fields, Numerical Methods & Scientific Computing, Infectious Disease Modeling

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
arXiv preprint arXiv:2210.15246 under revision in journal CQG	Slowly evolving horizons in Einstein gravity and beyond	A Tarafdar, S Bhattacharjee	Classical and Quantum Gravity	23	Oct 2022	10.48550/arXiv.2210.15246

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation/ Role	Funding Agency/ Sponsorer	Grant Number	Status (Ongoing/ Completed)	Amount
A study of black hole horizons with (semi) analytic approaches	2023-2026	Jan-5, 2023	Jan-4, 2026	PI	SERB	MTR/2022/000170	Ongoing	INR 6 lacs
Near Horizon Structure of Black Holes	2018-2022	October 6 2018	April, 5 2023	PI	SERB	ECR/2017/002124	Completed	INR 17,41,949

New Course Developed

Course Title	Course No. (if any)	Course Program
Infectious Disease Modelling (Instructed to M. Tech. BI, July semester 2022)	IDM	M. Tech.

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	Role
Inner horizon instabilities of black holes	Department of Physics, Central University of Himachal Pradesh, Dharamshala	National	September 1	Speaker
Near Horizon Asymptotic Symmetries of Black Holes	6th Shivalik HEPCATS meeting	National	September 2	Invited speaker

Membership in Professional Bodies

Professional Body Name	Member Type	Membership Year
Indian Association of Physics Teachers	**Life Member**	**2022**

Membership in Committee within IIITA

Type	Name of Committee	Designation /Role	Start Date	End Date
Admin.	Cultural Program Committee	Member	July 15, 2022	6 November 2022



42. Dr. Sumit Kumar Upadhyay

Designation: Assistant Professor
Date of Joining: 12.01.2016
Department: Applied Sciences
Research Interests: Algebra

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Classification of multiplicative Lie algebra structures on a finite group	Mani Shankar Pandey, Sumit Kumar Upadhyay	Colloquium Mathematicum	168 (25-24)	2022	10.4064/cm 8397-12-2020
Journal	Simplicity of iterated Ore extensions	Mamta Balodi, Sumit Kumar Upadhyay	Asian European Journal of Mathematics	15 (3) 2250052	2022	10.1142/ S1793557122500528
Journal	The algebraic cohomotopy group and its properties	Raja Sridharan, Sumit Kumar Upadhyay, Sunil K. Yadav	Indian Journal of Pure and Applied Mathematics	54 (641-648)	2023	10.1007/ s13226-022-00282-1

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
VRITIKA internship on 'Properties of projective module'	Department of Applied Sciences, IIITA	National	June 20, 2022	July 24, 2022	Event Organizer
An online workshop on 'Group theory and related areas'	Department of Applied Sciences, IIITA	National	November 14, 2022	November 16, 2022	Coordinator

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
Ramanujan Mathematical Society	Life Member	2012
Indian Mathematical Society	Life Member	2016

Membership in Committee outside IIITA

Type	Name of the Institution	Name of the Committee	Designation /Role	Start Date
Academic	MNNIT Allahabad	SRC	External Member	May, 2022



43. Dr. Pooja Mishra

Designation: Assistant Professor

Date of Joining: 21.07.2014

Department: Electronics and Communication Engineering

Research Interest: Polarimetric Applications on Synthetic Aperture Radar (SAR) Images, Satellite Image Processing, Microwave Remote Sensing, SAR Image classification, Electromagnetic wave interaction with various media and Electromagnetic Modelling, Microstrip Antennas

Publication

Type	Paper Title	Author(s)	Journal Title	Year
Journal	Development of classification criteria for dominant scattering from the lunar surface: An application of MiniSAR data	Nidhi Verma, Pooja Mishra, Neetesh Purohit, Dharmendra Singh	Planetary and Space Science	2021



44. Dr. Suneel Yadav

Designation: Assistant Professor

Date of Joining: 06.07.2015

Department: Electronics and Communication Engineering

Research Interests: Wireless Communications, Signal Processing, MIMO Communications, Cooperative Relaying Communications, mmWave and THz Communications

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year
Journal	On the Secrecy Performance of RIS-enabled Wireless Communications over Nakagami-m Fading Channels	Ashutosh K. Yadav, Suneel Yadav, Anshul Pandey, Adao Silva	*ICT Express Journal*	9/3	2022
Journal	Wireless Powered Cognitive Radio Networks with Multiple Antenna Sources and Hardware Impairments	Addanki Prathima, Devendra S. Gurjar, Yuming Jiang, and Suneel Yadav	*Physical Communications*	55	2022
Journal	Security Threats and Mitigation Techniques in UAV Communications: A Comprehensive Survey	Gaurav Pandey, Devendra S. Gurjar, Ha. H. Nguyen, and Suneel Yadav	*IEEE Access*	10	2022
Journal	UAV-Assisted Wireless Information and Power Transfer for Self-Sustained IoT Communications	Addanki Prathima, Devendra S. Gurjar, Suneel Yadav, Dragana S. Krstic, Nenad Milosevic, and Jugoslav Jokovic	*IEEE Sensors Journal*	22/24	
Journal	On the Performance Analysis of V2N Mixed RF and Hybrid FSO/RF Communication System	VSV Sandeep, Devendra Singh Gurjar, Suneel Yadav, Prabina Pattanayak, and Yuming Jiang	*IEEE Photonics Journal*	14/6	2022
Journal	Physical Layer Security Performance of NOMA-Aided Vehicular Communications Over Nakagami-*m* Time-Selective Fading Channels with Channel Estimation Errors	Neha Jaiswal, Anshul Pandey, Suneel Yadav, Neetesh Purohit, and Devendra S. Gurjar	*IEEE Open Journal of Vehicular Technology*	4	2023

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Designation /Role	Funding Agency /Sponsorer	Grant Number	Status	Amount
Analytical Investigation on the Sum of Random Vectors and Application to Intelligent Reflecting Surfaces Aided Wireless Communications	2023-2026	PI	SERB, DST	MTR/2022/ 000035	Ongoing	6,000,00
NiPDD: Designing an Artificial Intelligence-based CMOS Sensor system for Non-Invasive Detection of Parkinson's disease", Biomedical Informatics, ICMR.	2022-2024	Co-PI	ICMR	AI-Adhoc/04/ 2022/AI-Cell	Ongoing	Approx 42 Lacs
Science Technology and Innovation Hub in Information	2022-2024	Co-PI	DST	DST/SEED/SCSP/	Ongoing	Approx

and Communication Technology (ICT) at Indian Institute of Information Technology Allahabad (IIITA), Pryagraj, Uttar Pradesh				STI/2019/136/G		184 Lacs

New Course Developed

Course Title	Course No. (if any)	Course Program
Statistical Signal Analysis		M.Tech / Ph.D. (ECE)

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Preeti Kharwar	Performance Evaluation and Optimization of Multiuser IoT Relaying Networks with Hardware Impairments	IIITA	2022

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/International	Start Date	End Date	Role
ElectroTour 2.0	IIITA	National	14 Nov. 2022	15 Nov. 2022	Main Coordinator

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
Wireless Communications with Reconfigurable Intelligent Surfaces	PDPM IIITDM	National	5th Aug 2022	5th Aug 2022	Expert Talk
Mathematical Modeling and Simulation of Intelligent Reflecting Surfaces Assisted Wireless Communications	PDPM IIITDM	National	5th Aug 2022	5th Aug 2022	Expert Talk
Physical Layer Security Performance Analysis of RIS-Assisted Wireless Communication Systems	IEEE VTC	International	26 Sep. 2022	29 Sep. 2022	Speaker
Semantic Communication for B5G Wireless Networks	IEEE CICT 2022	International	18th Nov 2022	20th Nov 2022	Panellist in Panel Discussion
mmWave and sub-THz ranges in wireless communication: promising applications and coverage problems	IX International Conference on Engineering and Telecommunication (En&T 2022), MIPT, Moscow, Russia	International	23rd Nov 2022	24th Nov 2022	Panellist in Panel Discussion
mmWave enabled Vehicular Communications	IX International Conference on Engineering and Telecommunication (En&T 2022), MIPT, Moscow, Russia	International	23rd Nov 2022	24th Nov 2022	Expert Talk



45. Dr. Sunny

Designation: Assistant Professor
Date of Joining: 12.06.2015
Department: Electronics and Communication Engineering
Research Interests: Research Interests: Microelectronics, Micro and Nanofabrication, Novel Sensing Materials and Devices, Semiconductor Memories and Photonic devices

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Transition Metal-based Perovskite Oxides: Emerging Electrocatalysts for Oxygen Evolution Reaction	Deeksha, P. Kour, I. Ahmed, Sunny, S. K. Sharma, K. Yadav, Y. K. Mishra	ChemCatChem	15	Jan., 2023	10.1002/cctc .202300040
Journal	Room temperature operated composite SnS–ZnS heterojunction-based sensor for sub-ppm ethanol detection	Suraj Kumar Lalwani, Ajit Debnath and Sunny	Nanotechnology	33	2022	10.1088/1361-6528/ac9288
Journal	Distributed ARC Structure for Performance Optimization of Phase-Change Material-Based Tunable Photodetection	Vibhu Srivastava and Sunny	Journal of Electronic Materials	Vol 51	2022	10.1007/s11664-021-09366-w
Conference	Ge2Sb2Te5 Enabled Active Switching of Fano Resonance in Tunable Terahertz Metamaterial	P. Mishra, V. Srivastava, and Sunny	Frontiers in Optics + Laser Science (FiOLS) meeting, Rochester, New York, USA		17-20 Oct 2022	10.1364/FIO.2022.JTu4A.88
Conference	Highly Sensitive Electrospun SnO2-ZnO Composite Nanofibers for Low Concentration Ethanol Detection	Suraj Kumar Lalwani, Ajit Debnath, Sunny	IEEE 22nd International Conference on Nanotechnology (NANO 2022), Palma de Mallorca, Spain		4-8 Jul, 2022	10.1109/NANO54668.2022.9928591
Conference	Improvement in Non-Volatile Ferroelectric Storage Properties of Metal-Ferroelectric-Insulating-Silicon (MFIS) FETs Using Al-LiNbO3-HfO2-Si Structure	Ajit Debnath, Suraj Kumar Lalwani, Sunny	IEEE 22nd International Conference on Nanotechnology (NANO 2022), Palma de Mallorca, Spain		4-8 Jul, 2022	10.1109/NANO54668.2022.9928630
Conference	Soil for Crop Prediction Using Decision Tree and Random Forest Regression Methods	M. Tolani, A. Bajpai, Sunny, L. Wuttisittikulkij, and Kovintavewat	37th International Conference on Circuits/Systems, Computers and Communications (ITC-CSCC), Phuket, Thailand		Jul 5-8, 2022	10.1109/ITC-CSCC55581.2022.9895017
Conference	Active Switching of Electromagnetic Induced	P. Mishra, V. Srivastava, and	CLEO: Applications and Technology 2022		15-20 May,	10.1364/CLEO

	Transparency in Ge2Sb2Te5 Tunable Terahertz Metamaterial	Sunny	San Jose, California USA		202	AT.2022.JTu3 A.53
Book Chapter	Energy-efficient methods for railway monitoring using WSN	Tolani, Manoj, Balodi, Arun, Bajpai, Ambar, Sunny, and Singh, Rajat Kumar	AI for Signal Processing and Wireless Communication, edited by A. Sharma, A. Jain, A. K. Arya and M. Ram, Berlin, Boston: De Gruyter		2022	10.1515/97831 10734652-009

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation /Role	Funding Agency /Sponsorer	Grant Number	Status	Amount
Design and Implementation of Biocompatible Energy Harvesting Device for Low Frequency Operation	03 years	26-12-2022	25-12-2025	PI	SERB (DST)	CRG/2022 /009226	Ongoing	55 Lakh
On utilization of ZnO nanowire/multi- pods bridge nanostructures for selective acetone detection: A key biomarker for medical diagnosis	03 Months	12-07-2022	07-10-2022	PI	SERB (DST)	SIR/2022 /000056	Completed	09 lakh

New Course Developed

Course Title	Course No. (if any)	Course Program
Testing and Verification Lab	BTAV/MTAV	B.Tech / M.Tech / Ph.D. (with Specialization)

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Mr. Prateek Mishra (PMI2016001)	Investigations on Phase Change Materials for Tunable Metamaterials	IIIT Allahabad	Submitted (Feb-2022)
Mr. Ajit Debnath (PMI2016003)	Fabrication and characterization of ferroelectric materials for non-volatile memory application	IIIT Allahabad	Submitted (March-2022)

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/International	Start Date	End Date	Role
Event Conducted "Explore Light & Its Applications" (Third Edition)	OPTICA IIITA Student Chapter	National	13th April 2022.	13th April 2022.	Advisor

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
Reconfigurable Photonics	ATAL Academy-sponsored FDP,	National	04 Oct.,	04 Oct.,	Invited

Using Phase Change Materials: An Approach from Simulation to Fabrication	IIITM, Gwalior, India		2022	2022	Speaker
Tunable Photonics- A Phase-Change Material (PCM) Based Approach	European Materials Research Society (EMRS) Fall Meeting-2022, 19-22 Sept. 2022, Warsaw University of Technology, Warsaw, (Poland)	International	19 Sept. 2022	22 Sept. 2022	Invited Speaker and Session Chair
NiNA (North German Initiative Nanotechnology) Workshop Under the theme "Exploring the clinical translation of Nanotechnology for diagnosis and therapeutics"	University of Hamburg, Germany	International	18. August 2022	18. August 2022,	Attendee

Membership in Professional Bodies

Professional Body Name	Member Type	Membership Year
IEEE	Senior Member	2022
OPTICA	Member, Adviser-Student Chapter IIITA	2022
VIBHA	Life Member	2022

Membership in Committee within IIITA

Type	Name of Committee	Designation/Role	Start Date	End Date
Academic	SUGC	Chairman, SUGC	2022	2023
Admin	Council of Wardens	Secretary, CoW	2022	2023
Admin	Warden	Warde, BH-1	2022	2023

Honours and Awards

Awarded Year	Award Name	Awarded by
2022	SERB International Research Experience (SIRE)Award	SERB, DST



46. Dr. Utkarsh Goel

Designation: Assistant Professor
Date of Joining: 29.06.2016
Department: Management Studies
Research Interests: Corporate Finance, IT & BFSI, Efficiency Analysis, Investments

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/Issue	Year	DoI
Journal	Factors affecting adoption of digital payments by urban women: understanding the moderating role of perceived financial risk	Rishi Manrai, Prashant Dev Yadav & Utkarsh Goel	Technology Analysis & Strategic Management	Not Assigned	2022	10.1080/09537325.2022.2139237
Conference	Behavioral biases of real estate Investors: A survey of Literature	Singh, A., Kumar, S., and Goel, U.	International Conference on Contemporary Issues in Emerging Markets (CIEMC2021) organized by Indian Institute of Management (IIM) Bodh Gaya in Collaboration with Waikato Management School, The University of Waikato New Zealand	(ISBN 978-93-5768-063-9)	28-29 Oct 2022	pp. 182
Conference	Review of Online and Mobile based Financial Trading Planforms: Adoption and Investor Behavior	Hasan, S.M.A., Kumar, S., and Goel, U.	International Conference on Contemporary Issues in Emerging Markets (CIEMC2021) organized by Indian Institute of Management (IIM) Bodh Gaya in Collaboration with Waikato Management School, The University of Waikato New Zealand	(ISBN 978-93-5768-063-9)	28-29 Oct 2022	pp. 194
Conference	"Asset Class Selection: A Review of Literature and Future Agenda",	Singh, A., Goel, U. and Kumar, S.	International Conference on Contemporary Issues in Emerging Markets (CIEMC-2021) organized by Indian Institute of Management (IIM) Bodh Gaya in Collaboration with Waikato Management School, The University of Waikato New Zealand	(ISBN 978-93-5768-063-9)	28-29 Oct 2022	pp. 164

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
Crafting Research Via Industry-Academia Interface	Shailendra Kumar, Utkarsh Goel, Parikshit Joshi	National	26 May 2022	28th May 2022	Organiser & resource person

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Member	2022

Membership in Committee within IIITA

Type	Name of Committee	Designation/Role	Start Date	End Date
Academic	DPGC	Convener	Jan 2021	Jan 2023
Admin	Budget Committee	Member		
Admin	Health Committee	Member		



47. Dr. Amaresh Kumar Sahoo

Designation: Assistant Professor
Date of Joining: 29.01.2016
Department: Applied Sciences
Research Interests: Nanobiotechnology, Drug delivery, Biosensors.

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Synthesis of highly stable luminescent silver nanoclusters in metal–organic framework for heightened antibacterial activity	Arushi Verma, Anirudh Singh, Neetu Shukla, Sintu Kumar Samanta, Amaresh Kumar Sahoo	Applied Physics A	128/4	2022	10.1007/s00339-022-05431-1
Journal	Computational investigations on the natural small molecule as an inhibitor of programmed death ligand 1 for cancer immunotherapy	Geethu S Kumar, Mahmoud Moustafa, Amaresh Kumar Sahoo, Petr Malý, Shiv Bharadwaj	Life	12/5	2022	10.3390/life12050659
Journal	In silico study indicates antimalarials as direct inhibitors of SARS-CoV-2-RNA dependent RNA polymerase	Pawan Kumar Doharey, Vishal Singh, Mallikarjuna Rao Gedda, Amaresh Kumar Sahoo, Pritish Kumar Varadwaj, Bechan Sharma	Journal of Biomolecular Structure and Dynamics	40/12	2022	10.1080/07391102.2021.1871956
Journal	Visible Light-Mediated Photoactivated Sulfur Quantum Dots as Heightened Antibacterial Agents	Saurabh Shivalkar, Farwa Arshad, Amaresh Kumar Sahoo, Md Palashuddin Sk	ACS omega	7/37	2022	10.1021/acsomega.2c03968
Journal	Structural and thermostability insights into cellobiohydrolase of a thermophilic mould Myceliophthora thermophila: in-silico studies	Anica Dadwal, Vishal Singh, Shilpa Sharma, Amaresh Kumar Sahoo, Tulasi Satyanarayana	Journal of Biomolecular Structure and Dynamics		2022	10.1080/07391102.2022.2133012
Journal	Nanoengineering of biohybrid micro/nanobots for programmed biomedical applications	Saurabh Shivalkar, Pallabi Chowdhary, Tayyaba Afshan, Shrutika Chaudhary, Anwesha Roy, Sintu Kumar Samanta, Amaresh Kumar Sahoo	Colloids and Surfaces B: Biointerfaces	222	2022	10.1016/j.colsurfb.2022.113054
Journal	Recent development of multi-targeted inhibitors of human topoisomerase II enzyme as potent cancer therapeutics	Vishal Singh, Tayyaba Afshan, Pankaj Tyagi, Pritish Kumar Varadwaj, Amaresh Kumar Sahoo	International journal of biological macromolecules	226	2022	10.1016/j.ijbiomac.2022.12.013

Journal	Docking and molecular dynamics simulation for therapeutic repurposing in small cell lung cancer (SCLC) patients infected with COVID-19	M Shivapriya Pingali, Anirudh Singh, Vishal Singh, Amaresh Kumar Sahoo, Pritish Kumar Varadwaj, Sintu Kumar Samanta	Journal of Biomolecular Structure and Dynamics	41/1	2023	10.1080/07391102.2021.2002719
Journal	Exploration of microbially derived natural compounds against monkeypox virus as viral core cysteine proteinase inhibitors	Amit Dubey, MM Alawi, TA Alandijany, Isra M Alsaady, Sarah A Altwaim, Amaresh Kumar Sahoo, Vivek Dhar Dwivedi, Esam Ibraheem Azhar	Viruses	15/1	2023	10.3390/v15010251

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEE	IEE membership	2022



48. Dr. Mohammed Javed

Designation: Assistant Professor
Date of Joining: 02.02.2018
Department: Information Technology
Research Interests: Image Processing, Pattern Recognition, Document Image Analysis, Compressed Document Processing

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/Issue	Year	DoI
Journals	DC-GNN: drop channel graph neural network for object classification and part segmentation in the point cloud	Md Meraz, Md Afzal Ansari, Mohammed Javed, Pavan Chakraborty	IJMIR	11, pages 123–133	2023	10.1007/s13735-022-00236-7
	FastSS: Fast and smooth segmentation of JPEG compressed printed text documents using DC and AC signal analysis.	Rajesh, B., Javed, M. & Nagabhushan, P.	*Multimedia Tools Applications*	82, 8855–8881	2023	10.1007/s11042-021-11858-0
	Segmentation-Less Extraction of Text and Non-Text Regions From JPEG 2000 Compressed Document Images Through Partial and Intelligent Decompression	Tejasvee Bisen; Mohammed Javed; P. Nagabhushan; Osamu Watanabe	*IEEE Access*	11 20673 - 20687	2023	10.1109/ACCESS.2023.3249961
Conferences	T2CI-GAN: Text to Compressed Image Generation Using Generative Adversarial Network	Bulla Rajesh, Nandakishore Dusa, Mohammed Javed, Shiv Ram Dubey, P. Nagabhushan	IAPR conference CVIP		2022	10.1007/978-3-031-31417-9_23
	Document Image Binarization in JPEG Compressed Domain using Dual Discriminator Generative Adversarial Networks	Bulla Rajesh, Manav Kamlesh Agrawal, Milan Bhuva, Kisalaya Kishore, Mohammed Javed	International Conference on Computer Vision and Machine Intelligence		2022	
	OCR for TIFF Compressed Document Images Directly in Compressed Domain Using Text segmentation and Hidden Markov Model Engineerin	Dikshit Sharma, Mohammed Javed, Bulla Rajesh	9th IEEE UPCON		2022	

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Dr. Bulla Rajesh	Text Segmentation in JPEG Compressed Document Images	IIITA	2022

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/International	Start Date	End Date	Role
CVMI 2022	IIITA	International	August 12	August 13	Conference secretary
UPCON 2022	IIITA	International	December 2	December 4	Conference secretary
ICDAL 2022	AIET, Mangalore	International	December 30	December 31	Program Chair

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/International	Start Date	End Date	Role
ICDAL 2022	AIET, Mangalore	International	December 30	December 31	Program Chair

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE Professional	Senior Member	10+ years
IUPRAI	Life Member	

Membership in Committee within IIITA

Type	Name of Committee	Designation/Role	Start Date	End Date
Admin	Convocation 2022	In charge	March 2023	March 2023
Academic	TA allocation	Member	Jan 2023	Jan 2023
Admin	CoW	Warden	Ongoing	Ongoing

Membership in Committee outside IIITA

Type	Name of the Institution	Name of the Committee	Designation/Role	Start Date	End Date
Academic	AIET, Mangalore	Advisory committee	Faculty advisor to CSE	Ongoing	Ongoing

Projects/Grants/Consultancy

Title of the Project /Grant/ Consultancy	Duration	Start Date	End Date	Designation / Role	Funding Agency/ Sponsorer	Grant Number	Status	Amount
A Web Browser based tool for obscene content detection in images and videos in real time	2020 - ongoing	April 2020	Ongoing	PI	Ministry of Home Affairs, Govt of India	M-12014(02)/5/2019-PSO (E) (E-4017) dated 23 March 2020	Ongoing	38 lakhs



49. Dr. Triloki Pant

Designation: Assistant Professor
Date of Joining: 01.07.2010
Department: Information Technology
Research Interests: Remote Sensing and Image Analysis

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/Issue	Year	DoI
Journal	Image Fusion based Approach of Water Extraction from Spectrally Mixed Water Regions belonging to the Sources of Varying Nature	Mishra, V. K., Chaudhary, P. K. and Pant, T.	Multimedia Tools and Applications	Accepted in March 2023	2023	NA
Journal	Enhancement of Tree Canopy Cover for the mapping of Forest from the Sentinel-2 Imagery	Mishra, V. K., Soni, P., Pant, T., Sharma, S. and Thakur, V.	Journal of Applied Remote Sensing	16(4)	2022	10.1117/1.JRS.16.042403
Conference	Evaluation of ESA CCI above Ground Biomass using Multi-source, Multi-spectral Data and Machine Learning	Srivastava, H. and Pant, T.	Accepted for poster presentation in IEEE International Geoscience and Remote Sensing Symposium IGARSS (IEEE) 2023	Accepted	2023	NA
Conference	Wheat Crop Acreage Estimation using Vegetation Change Detection with Multi-Layer Neural Network	Jitendra, Pant, T. and Haspe, A.	International Conference on Data Analytics and Computing (ICDAC-2022) (Springer) 2022	NA	2022	NA
Conference	Vegetation Cover Estimation using Sentinel-2 Multispectral Data	Srivastava, H. and Pant, T.	International Conference on Data Analytics and Computing (ICDAC-2022) (Springer) 2022	NA	2022	NA

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Vikash Kumar Mishra	Feature Extraction Techniques for Water and Urban Land Cover using Temporal and Multispectral Satellite Data	IIITA	2023

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
21 Days Summer School (Level-1) on Geospatial Science and Technology	Triloki Pant, Department of Information Technology, IIITA	National	23rd May 2022	12th June 2022	PI

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
5-Day program on "Application of SAR Technology in Disaster Management (ASTDM-2022)"	IIT Roorkee	National	22nd August 2022	26th August 2022	Participant
One day online workshop on "UAV Remote Sensing"	IIRS (ISRO) Dehradun	National	21st Nov. 2022	21st Nov. 2022	Participant
"Types of Remote Sensing-II (Microwave and Thermal)" in online mode in DST-NGP sponsored Training Program on Geospatial Technologies	Department of Civil Engineering, Graphic Era (Deemed to be University), Dehradun	National	16th Nov. 2022	16th Nov. 2022	Invited Lecture (Online)
"Extraction of water region using optical and microwave data" in SERB-DST sponsored training program on Application of Geospatial Technology in Sustainable Management of Water Resources	K. Banerjee Centre of Atmospheric and Ocean Studies, Faculty of Science, University of Allahabad	National	28th March 2023	28th March 2023	Invited Lecture

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	**Member**	**2020**
Indian Society of Remote Sensing (ISRS)	Life Member	2019
Indian Society for Technical Education (ISTE)	Life Member	2015

Membership in Committee within IIITA

Type	Name of committee	Designation/Role	Start Date	End Date
Academic	DUGC (IT)	Convener	Sep. 2022	Till Date
Academic	Student's Gymkhana Election Committee 2023	Chief Election Commissioner	Jan. 2023	Till Date



50. Dr. Ashutosh Kumar Singh

Designation: Assistant Professor

Date of Joining: 03.07.2010

Department: Electronics and Communication Engineering

Research Interest: Control systems, Electronic Circuits, Networked Control Systems, Practical Applications of Control System Theory

Publication

Type	Paper Title	Author(s)	Journal Title	Year
Journal	Fractional order adaptive Kalman filter for sensorless speed control of DC motor	Tripathi, Ravi Pratap; Singh, Ashutosh Kumar; Gangwar, Pavan	International journal of electronics	2023
Journal	Challenges, Configuration, Control, and Scope of DC Microgrid Systems: A Review	Maurya, Rinki; Prakash, Surya; Singh, Ashutosh Kumar	Journal of electrical engineering & technology	2023
Journal	A survey on RF energy harvesting techniques for lifetime enhancement of wireless sensor networks	Sharma, Priya; Singh, Ashutosh Kumar	Sustainable computing-informatics & systems	2023
Journal	A novel design of circularly polarized ring CDRA with wideband impedance bandwidth using slotted microstrip feed line for X-band applications	Rai, Chandravilash; Singh, Sanjai; Singh, Ashutosh Kumar; Verma, Ramesh Kumar	International journal of microwave and wireless technologies	2022
Journal	Breast Thermography as an Adjunct Tool to Monitor the Chemotherapy Response in a Triple Negative BIRADS V Cancer Patient: A Case Study	Singh, Deepika; Singh, Ashutosh Kumar; Tiwari, Sonia	IEEE transactions on medical imaging	2022
Journal	Design and Analysis of Dual-band Circularly Polarized Hybrid Ring Cylindrical Dielectric Resonator Antenna for Wireless Applications in C and X-Band	Rai, Chandravilash; Singh, Sanjai; Singh, Ashutosh Kumar; Verma, Ramesh Kumar	Wireless personal communications	2022
Journal	Design and Analysis of Double CDRA with Extended Wideband Characteristics for C- and X-Band Applications	Rai, Chandravilash; Singh, Amit; Bhukya, Santhosh; Singh, Sanjai; Singh, Ashutosh Kumar; Verma, Ramesh Kumar	IETE journal of research	2022
Journal	Sensorless speed control of DC motor using EKF estimator and TSK fuzzy logic controller	Tripathi, Ravi Pratap; Singh, Ashutosh Kumar; Gangwar, Pavan; Verma, Ramesh Kumar	Automatika	2022
Journal	Dual-Band and Dual Polarized Inverted Pentagonal Shaped Hybrid Cylindrical Dielectric Resonator Antenna for Wireless Applications	Rai, Chandravilash; Singh, Amit; Singh, Sanjai; Singh, Ashutosh Kumar; Verma, Ramesh Kumar	Wireless personal communications	2022
Journal	Circularly Polarized Quad-Port MIMO Dielectric Resonator Antenna with Beam Tilting Feature for Vehicular Communication	Dwivedi, Ajay Kumar; Sharma, Anand; Singh, Ashutosh Kumar; Singh, Vivek	IETE Technical Review	2022



51. Dr. Saurabh Mishra

Designation: Assistant Professor
Date of Joining: 03.07.2010
Department: Department of Management Studies
Research Interests: Digital Marketing, Social Media Marketing, E-commerce, E-business, Google analytics, Marketing Management & Marketing Measurement/Metrics

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Twenty-two years of precision agriculture: a bibliometric review	Rajshree Misara, Divyanshu Verma, Neha Mishra, Shashi Kant Rai, Saurabh Mishra	Precision Agriculture	23(5)	2022	10.1007/s11119-022-09969-1

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
International Conference on Behavioural Finance (ICBF)	Department of Management Studies, IIIT Allahabad	International	13 June 2022	17 June 2022	Coordinator
5th Summer School on Behavioural Finance	Department of Management Studies, IIIT Allahabad	International	13 June 2022	17 June 2022	Coordinator

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
International Conference on Public Policy and Management	Chandragupta Institute of Management, Patna	International			Author
International Conference on Sustainable Business Management	IIT Roorkee	International	23/03/2023	25/03/2023	Co-Author

Membership in Committee within IIITA

Type	Name of committee	Designation/Role	Start Date
Administration	Market Survey Committee	Chairman	Since 2021
Academic	Training and Placement, MBA	Faculty In charge	Since 2021
Academic	DPGC	Convenor	Since January 2022



52. Dr. Shashikant Rai

Designation: Assistant Professor
Date of Joining: 04.07.2010
Department: Management Studies
Research Interests: Artificial Intelligence, Sustainability, Supply Chain Management, and Agriculture related business management, Operation Management

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year
Journal	Is green HRM affecting our youth talent an analysis of students attitude towards GHRM	Priya Shah, Shashi Kant Rai, Saurabh Mishra, Richa	Academy of Marketing Studies Journal	27/5	2023
Conference	Green human resource management practices promoting environmentally-friendly behaviour: The latest trend of technology acceptance model perspective	Priya Shah, Shashi Kant Rai	International Conference on Sustainable Business Management (SBM 2023)		2023
Conference	GHRM practices and Green transformational leadership promoting environmentally friendly behaviour mediating effect with green innovation on higher education: A SEM approach to predict technology acceptance model	Priya Shah, Shashi Kant Rai	13th International Conference on Excellence in Research and Education (CERE 2023)		2023
Conference	Analysis of the revenue generation, of Rice and Wheat Production versus Millets production in Punjab and Haryana	Netranand Pathak, Shashi Kant Rai Priya Shah,	International Conference on Public Policy and Management (ICPPM 2023)		2023
Journal	Twenty-two years of precision agriculture: A bibliometric review	Misara, R., Verma, D., Mishra, N., Rai, S. K., & Mishra, S.	Precision Agriculture	23(6), 2135-2158.	2022
Conference	Knowledge mapping of netnography research: Insights from a systematic review and bibliometric analysis, at CERE 2023, IIM Indore	Misara, R., Verma, D., Mishra, N., Rai, S. K., & Mishra, S.	13th International Conference on Excellence in Research and Education (CERE 2023)		2023

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation/ Role	Funding Agency /Sponsorer	Grant Number	Status
Assessment and Measurement of Academic Stress among the Student	3	18 Feb 2021	19 Feb, 2024	PI	IIIT Allahabad		ongoing
Installation and Commissioning of RFID Systems with Integrated Library Management Software for the Central Library, IIIT Allahabad.	3	09 Dec, 2019	22 Dec, 2022	Co-pi	IIIT Allahabad	3	ongoing

social awareness for COVID-19 through AI based mobile app	1	08/2021	09/2023	Co-pi	IIIT-ALLAHABAD	2	ongoing

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Priya Shah	Impact of green human resource management on organizational performance: mediating with green innovation and employees commitments ‘‘With special reference to higher education sector in India’’		4
Netranand Pathak			1
Divyanshu Verma	The adoption of Blockchain solutions in Supply chain finance		2
Amrita Dutta	Assessment of Team dysfunction on Employee Psychology in IT sector		5

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/International
One Week Summer School on Behavioral Finance 2022 IIIT Allahabad	Member	National



53. Dr. Anand Kumar Tiwari

Designation: Assistant Professor
Date of Joining: 01.02.2016
Department: Applied Sciences
Research Interests: Graph theory (Topological, Spectral, Combinatorial)

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Doubly semiequivelar maps on the plane and torus	Y. Singh, A.K. Tiwari	AKCE J. Graphs and Combinatorics	19/3	2022	doi.org/10.1080/09728600.2022.2146549

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
International Conference on graphs, networks and combinatorics	Ramanujan College, Delhi University	International	January 10, 2023	January 12, 2023	Paper presenter
National Conference of Academy of Mathematics-RAMAA-2022	Banaras Hindu University	National	May 07, 2022	May 08, 2022	Session chaired

Membership in Committee within IIITA

Type	Name of committee	Designation/Role	Start Date	End Date
Academic	Organizing committee	Session chaired	Sep 25, 2022	Octo 01, 2023



54. Dr. Bibhas Ghoshal

Designation: Assistant Professor
Date of Joining: 05.01.2015
Department: Information Technology
Research Interests: Embedded systems, Internet of Things, High Performance Computing Systems Architecture for Machine Learning Algorithms, Resource Constrained AI

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Flipping Bits Like a Pro: Precise Row Hammering on Embedded Devices	Anandpreet Kaur, Pravin Srivastava and Bibhas Ghoshal	IEEE Embedded System Letters (ESL) 2023	ESWEEK Special Issue	2023	To appear
Journal	Fault-Aware Routing Approach for Mesh-based Network-on-Chip published	Ankur Gogoi, Bibhas Ghoshal and Kanchan Manna	Integration, the VLSI Journal, Elsevier	Volume 93	2023	http://dx.doi.org/10.1016/j.vlsi.2023.05.007
Journal	Machine learning guided thermal management of Open Computing Language applications on CPU-GPU based embedded platforms	Rakesh Kumar and Bibhas Ghoshal	IET Computers & Digital Techniques Journal, Wiley	Volume 17	2022	10.1049/cdt2.12050
Journal	Learning Based Application Driven Energy Aware Compilation for GPU	Akash Sachan, Pravin Srivastava and Bibhas Ghoshal	Microprocessors and Microsystems Journal, Elsevier	Volume 94	2022	10.1016/j.micpro.2022.104664
Journal	An Embedded Platform-as-a-Service facilitating research on Thermal Management of Embedded Platforms	Rakesh Kumar, Akash Sachan and Bibhas Ghoshal	IEEE Access	Volume 10	2022	10.1109/ACCESS.2022.3201501
Conference	DRAM-MaUT: DRAM Address Mapping Unveiling Tool for ARM Devices	Anandpreet Kaur, Pravin Srivastava and Bibhas Ghoshal	International Conference on Compilers, Architecture, Synthesis for Embedded Systems (ESWEEK-CASES)			

New Course Developed

Course Title	Course No. (if any)	Course Program
Cloud Computing	CEC	B.Tech and M.Tech
Embedded Systems and IoT	EIOT	B.Tech and M.Tech

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
ACM	Professional	2022- 2023
IEEE	Professional	2022-2023



55. Dr. Sudipta Das

Designation: Assistant Professor
Date of Joining: 19.07.2016
Department: Management Studies
Research Interests: Asset pricing, Financial Modelling, Financial Economics

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation/ Role	Funding Agency/ Sponsorer	Grant Number	Status	Amount
Science Technology and Innovation Hub in ICT at IIITA, Prayagraj Block, Prayagraj District, Uttar Pradesh State.	2 Years	28-03-2022	28-03-2024	Co-PI	DST	DST/SEED/SCSP/STI/2019/136 dated 28.03.2022	Ongoing	186.66 Lakhs



56. Dr. Soumyadev Maity

Designation: Assistant Professor (Contract)
Date of Joining: 15.06.2017
Department: Information Technology
Research Interests: Information and Communication Security

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/Issue	Year	DoI
Book Chapter	Quantum Programming on Azure Quantum-An Open-Source Tool for Quantum Developers	Kumar Prateek, and S. Maity.	In: Quantum Computing: A Shift from Bits to Qubits. Studies in Computational Intelligence, edited by Pandey, R., Srivastava, N., Singh, N. K., Tyagi, K., Studies in Computational Intelligence book series, Springer Nature	1085, pp. 283-309	March 2023	doi.org/10.1007/978-981-19-9530-9_16
Book Chapter	Post Quantum Blockchain Enabled Services in Scalable Smart Cities	Kumar Prateek, and S. Maity	in Quantum Blockchain: An Emerging Cryptographic Paradigm, edited by Vani Rajasekar, Rajesh Kumar, SK Hafizul Islam, Balamurugan Balusamy, Ching-Hung Hsu, Scrivener-Wiley	pp. 263-291	June 2022	doi.org/10.1002/9781119836728.ch11
Book Chapter	Characteristics, Advances, and Challenges in Blockchain-Enabled Cyber-Physical Systems	Manohar Sai Burra and S. Maity	in Blockchain Technology for Emerging Applications: A Comprehensive Approach, edited by S.K. Hafizul Islam, Arup Pal, Debabrata Samanta, Siddhartha Bhattacharyya, Academic Press	pp. 67-89	May 2022	doi.org/10.1016/B978-0-323-90193-2.00008-9
Journal	An Unconditionally Secured Privacy-Preserving Authentication Scheme for Smart Metering Infrastructure in Smart Grid"	Kumar Prateek, S. Maity and Ruhul Amin	IEEE Transactions on Network Science and Engineering	vol. 10, no. 2, pp. 1085-1095	March 2023	doi.org/10.1109/TNSE.2022.3226902
Conference	Clarity: Analysing Security in Web Applications	N. Saxena, Connor Potter and S. Maity	15th International Conference on COMmunication Systems & NETworks (COMSNETS-23), Bengaluru, India	pp. 522-528	3-8 January 2023	doi.org/10.1109/COMSNETS56262.2023.10041289

Membership in Professional Bodies

Professional Body Name	Member Type	Membership Year
IEEE	Member	From 2012 till date
Computer Society of India	Lifetime Member	-

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation/ Role	Funding Agency/ Sponsorer	Grant Number	Status	Amount
Secure and privacy preserving student feedback management system for IIITA	2 Years	20 Jan 2021	20 Jan 2023	Principle Investigator	IIIT Allahabad	IIITA/RO/ 2021/048	Completed	8.89 Lacs
Reliable and privacy preserving data auditing for FOG assisted cyber physical systems (FOG-CPS)	3 Years	20 Dec 2021	20 Dec 2024	Principle Investigator	IHUB NTIHAC Foundation IIT Kanpur	IHUB-NTIHAC/ 2021/01/3	Ongoing	22.4 Lacs
development of security audit framework for secure IoT network	5 Years	31 Mar 2021	31-March 2026	Co-Investigator	-do-		Ongoing	274.25 Lacs



57. Dr. Rekha Verma

Designation: Assistant Professor (Contract)
Date of Joining: 08.12.2014
Department: Electronics and Communication Engineering
Research Interests: Computational nanoelectronics, Solid state devices, Transport properties in solids

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/Issue	Year	DoI
Journal	Effect of electron–phonon coupling on transport properties of monolayer germanene: A thermoelectric perspective	Neelesh Gupta and Rekha Verma	Elsevier: Materials Science in Semiconductor Processing	153	2022	10.1016/j.mssp.2022.107115
Journal	Large Exciton-Driven Linear and Nonlinear Optical Processes in Monolayers of Nitrogen Arsenide and Nitrogen Antimonide	M. Kolos, R. VERMA, F. Karlicky, S. Bhattacharya	ACS: Jour. Physical Chem. C	126	2022	10.1021/acs.jpcc.2c03708

Projects/Grants/Consultancy

Title of the Project /Grant/ Consultancy	Duration	Start Date	End Date	Designation/ Role	Funding Agency/ Sponsorer	Grant Number	Status	Amount
Ab-initio linear and non-linear ultrafast spectroscopy in two-dimensional nitrogen based binary buckled group V semiconductors	2020-2023	Dec 2020	Dec 2023	Co-PI	Indo-Czech International Cooperation Division	DST/INT/Czech/P-14/2019	Ongoing	INR~1.2 Crores (India+Czech Republic)
Science Technology and Innovation Hub in Information and Communication Technology (ICT) at IIITA Prayagraj Block, Uttar Pradesh	2022-2024	Apr2022	Mar 2024	Co-PI	DST	DST/SEED/SCSP/STI/2019/136	Ongoing	INR 1,86,66,933

Patent/Copyright

Title of the Patent/ Copyright	Inventor(s)	Assignee / Organisation	Application Number	Patent/ Copyright Number	Filing Country	Filing Date	Publication Date	Status
A Graphene based thermoelectric generator	Rekha Verma, Sitangshu Bhattacharya, Santanu Mahapatra	IISc Bangalore	3625/CHE/2013	404071	India	August 2013	28th August 2022	Granted

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Neelesh Gupta	Modeling of Two-Dimensional Materials using First Principles Techniques for Thermoelectric Applications	IIIT Allahabad	2022

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE, IEEE EDS	Professional member	2014-till date

Membership in Committee within IIITA

Type	Name of Committee	Designation/Role	Start Date	End Date
Academic	DPGC	Member	2015-17, Sep 2021	Till date
Academic	PhD Admission 2022 committee	Chair	July 2022	-
Academic	Research Council of IIITA	Member	August 2017	Till date
Academic	PhD Admission 2022 committee	Member	January 2023	-
Admin.	IIC Council	Member	April 2023	Till date
Admin.	Internship & Credit Export Activities	Faculty in-charge	January 2020	Till date
Admin.	Students Travel Support Committee	Secretary	August 2019	August 2022
Admin.	Health Centre Advisory Committee	Member	May 2018	December 2020
Admin.	Proctorial Board	Assistant Proctor	July 2019	July 2021
Admin.	GH Warden	Warden	July 2017	June 2021
Admin.	Grievance Redressal Committee	Member	July 2017	January 2019
Admin.	Placement for ECE	Faculty in-charge	Feb 2014	April 2017
Admin.	Gender Equality Awareness Committee	Member	August 2017	Till date
Admin.	Departmental Purchase Committee (DPC)	Member	April 2015	March 2018
Admin.	Examination Committee for ECE Deptt	Member	July 2018	December 2018
Academic	Academic Time-table committee	Member	April 2015	May 2018
Academic	Committee for Research & Development related activities	Member	August 2017	Till date
Academic	Standing Committee for new ordinance	Member	Nov 2017	
Admin.	Core committee for ERP and Automation	Member	July 2019	June 2020



58. Dr. Seema Kushwaha

Designation: Assistant Professor (Contract)
Date of Joining: 01.02.2019
Department: Applied Sciences
Research Interests: Algebra and Number Theory

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/Issue	Year	DoI
Journal	Farey-subgraphs and continued fractions	Seema Kushwaha And Ritumoni Sarma	Studia Scientiarum Mathematicarum Hungarica: Combinatorics, Geometry and Topology	59/2	2022	10.1556/012.2022.01525

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
VRITIKA Internship on Diophantine Equations	SERB	National	20/06/2022	26/07/2022	Event Organizer

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
Workshop on Group Theory and Related Topics	IIITA	National	14/11/2022	16/11/2022	Invited Speaker
International Conference on Applied Mathematics, Informatics, and Computing Sciences (AMICS 2022)	Bosen Academic Research Institute, Shanghai, China	International	5/12/2022	7/12/2022	Invited Speaker



59. Dr. Amar Nath Yadav

Designation: Assistant Professor (Contract)
Date of Joining: 02.05.2019
Department: Electronics and Communication Engineering
Research Interests: Microwave Circuits and Antennas.

Teaching/Research Experience

Designation	Start Date	End Date	Organization
Assistant Professor	02/05/2019		IIIT Allahabad
Assistant Professor	01/07/2018	01/05/2019	IIIT Guwahati
Lecturer	22/12/2012	31/06/2018	IIIT Guwahati

New Course Developed

Course Title	Course No. (if any)	Course Program
RF/Microwave Circuit Design & Technique	2-1-1	B.Tech/M.Tech

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Regular Member	2022-2023

Membership in Committee

Name of committee	Designation/Role	Start Date	End Date
DPGC	DPGC Convener	25/07/2022	….

Journal Publication

Paper Title	Author	Journal Title	Vol/Issue	Year	Pagination
Tunable Balanced-to-Unbalanced In-Phase Power Divider: Theoretical Analysis and Design	Amar Nath Yadav	Radioengineering	31	2022	486-495
Machine Learning Approach in Optimal Localization of Tumor Using a Novel SIW-Based Antenna for Improvement of Ablation Zone in Hepatocellular Carcinoma	Suyash Kumar Singh, Amar Nath Yadav	IEEE Access	11	2023	26964-26978
Novel tumor localization model and prediction of ablation zone using an intertwined helical antenna for the treatment of hepatocellular carcinoma	ash Kumar Singh, Amar Nath Yadav	International Journal for Numerical Methods in Biomedical Engineering	39	2023	e3686

Conference Publication

Paper Title	Author	Conference Title	Publisher	Year	Publishing Place
Branch Line Coupler Based on Substrate Integrated Waveguide Technology	Brij Kumar Bharti, Amar Nath Yadav	2022 IEEE 9th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)	IEEE	2022	IEEE Explore
Concurrent Dual Band CMOS LNA with improved IIP3 using Modified DS technique	Sudhanshu Kumar, Amar Nath Yadav, Kavindra Kandpal	2022 IEEE International Symposium on Smart Electronic Systems (iSES)	IEEE	2022	IEEE Explore



60. Dr. Anshu S. Anand

Designation: Assistant Professor (Contract)
Date of Joining: 19.08.2019
Department: Information Technology
Research Interests: Parallel and Distributed Computing, High Performance Computing, Blockchain, Convergence of HPC and AI

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Conference	Plant Disease Detection Using CNN Through Segmentation and Balancing Techniques	Maulik Verma, Anshu S Anand, Anjil Srivastava	Advances in Distributed Computing and Machine Learning	-	2022	10.1007/978-981-19-1018-0_30
Journal	A Novel GPU-Based Approach to Exploit Time-Respectingness in Public Transport Networks for Efficient Computation of Earliest Arrival Time	Sunil Kumar Maurya, Anshu S Anand	IEEE Access	10	2022	10.1109/ACCESS.2022.3192443

Projects/Grants/Consultancy

Title of the Project /Grant/ Consultancy	Duration	Funding Agency/Sponsor	Status	Amount
Seed grant	3 years	IIITA	Ongoing	9,80,000

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
UPCON 2022	IIIT Allahabad	International	2nd Dec, 2022	4th Dec, 2022	Workshop/Tutorial chair
4th International Workshop on Blockchain Technologies and its Applications	IIIT Allahabad	International	1st December, 2022	1st December, 2022	Coordinator, Organizing Committee

Membership in Professional Bodies

Professional Body Name	Member type
IEEE	Senior Member
ACM	Member

Membership in Committee within IIITA

Type	Name of committee	Designation/ Role	Start Date	End Date
Academic	DUGC	Member	September, 2022	Till date
Admin	Council of Wardens	Member	August, 2021	Till date
Admin	Social Media Committee	Member	September, 2022	Till date
Admin	Students' Gymkhana Election Committee	Member	January 2023	April, 2023

Admin	Technical Support Committee + Event Website Committee	Member	July 2022	November, 2022
Admin	Student Robe order & Distribution Committee, 18th Convocation	Member	April 2023	Till date

Honours and Awards

Awarded Year	Award Name	Awarded by
2022	IEEE Senior Member	IEEE

1) Visited Koc University, Istanbul, Turkey for a research visit from 27th May, 2022 to 25th July, 2022.
2) Seminar on "Mixed and Multi-Precision SpMV for GPUs with Row-wise Precision Selection" at Koc University, Istanbul, Turkey on 22nd July, 2022.
3) Session chair for CVMI 2022 conference during August 12-13, 2022
4) Reviewed papers in UPCON 2022, CVMI 2022,
5) Warden, BH3



61. Dr. Savitri Joshi

Designation: Assistant Professor (Contract)
Date of Joining: 01.10.2019
Department: Applied Sciences
Research Interests: Survival Analysis, Statistical Inference.

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Alternate Wrapped Circular Distribution	Savitri Joshi, R N Rattihalli	Statistics and Operations research Transactions (SORT)	46 (2)	2022	10.2436/20.8080.02.125

New Course Developed

Course Title	Course No. (if any)	Course Program
Survival Analysis	SVA	Ph.D.

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
An online workshop on Statistical Modelling with R (SMWR-2023)	Self financed partially funded by Bio Informatics Centre IIITA	National	09/01/2023	15/01/2023	Coordinator
VRITIKA internship on Applied Multivariate Analysis Using R	SERB, DST	National	20/06/2022	24/07/2022	Event Organizer

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
Statistics for Machine Learning and Data Science	ABV-IIITM Gwalior	National	21/11/2022	26/11/2022	Participant
An online workshop on Statistical Modelling with R (SMWR-2023)	IIIT Allahabad	National	09/01/2023	15/01/2023	Speaker

Membership in Professional Bodies

Professional Body Name	Member Type	Membership Year
International Indian Statistical Association (IISA)	Life	2022

Membership in Committee within IIITA

Type	Name of committee	Designation/Role	Start Date	End Date
Admin	Grievance Redressal Committee	Women Representative	12/2022	11/2024
Academic	Time Table Committee Applied Sciences	Member	07/2022	06/2023
Admin	Council of Warden	Warden GH-III	09/2021	08/2023



62. Dr. Kavindra Kandpal

Designation: Assistant Professor (Contract)

Date of Joining: 16.12.2019

Department: Electronics and Communication Engineering

Research Interests: Analog IC Design and Mixed-signal design (Modulators & demodulators, bandgap reference circuitry, LDOs, clocked dynamic comparators, Gm-C filters, and Verilog -A/ SPICE models of the novel transistors, Oxide Thin-Film Transistors: Device Physics, fabrication, and modeling, bio-sensors, Display Electronics: Pixel driving circuits.

Research Papers published in Journals:

1. Gyanendra Kumar Maurya, Vidushi Gautam, Faizan Ahmad, Roshani Singh, Kavindra Kandpal, Rachana Kumar, Mahesh Kumar, Pramod Kumar, Akhilesh Tiwari, "Visible to near-infrared broadband photodetector employing thin film topological insulator heterojunction (p-TlBiSe2/n-Si) diode", Applied Surface Science, 612, 155813, 2023.
2. Vidushi Gautam, Sudhanshu Gautam, Gyanendra Kumar Maurya, Kavindra Kandpal, Bheem Singh, Ramakrishnan Ganesan, SS Kushvaha, Pramod Kumar, "Investigation of RF sputtered, n-Bi2Se3 heterojunction on p-Si for enhanced NIR optoelectronic applications", Solar Energy Materials and Solar Cells, 248, 112028, 2022.
3. Gyanendra Kumar Maurya, Faizan Ahmad, Kavindra Kandpal, Rachana Kumar, Mahesh Kumar, Pramod Kumar, Akhilesh Tiwari, "UV to NIR tunable photodetector using Bi2Te2Se/n-GaN heterojunction', Surfaces and Interfaces, 32, 102152,
4. S. K. Verma, K. Kandpal, P. Kumar, A. Kumar, C. Wiemer, "Performance of Topological Insulator (SbTe)-Based Vertical Stacking Photodetector on n-Si Substrate", IEEE Transactions on Electron Devices, 2022. DOI: 10.1109/TED.2022.3181534
5. D. Deb, R. Goswami, R. K. Baruah, K. Kandpal, R. Saha, "Parametric investigation and trap sensitivity of npn double gate TFETs", Computers and Electrical Engineering, 100, 107930, 2022
6. D. Deb, R. Goswami, R. K. Baruah, R. Saha, K. Kandpal, "Role of gate electrode in influencing interface trap sensitivity in SOI tunnel FETs", Journal of Micromechanics and Microengineering, 32,4,044006, 2022

Research papers published in conference proceedings (as a full paper):

1. S. Jaiswal, M. K. Singh, R. Gosawmi, M. Goswami, K. Kandpal, "Impact of Gaussian Grain Boundary Trap States on the Performance of the LTPS TFTs", 2022 IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON), 274-278, 2022.
2. S. Jaiswal, S. Akula, R. Gosawmi, M. Goswami, K. Kandpal, "Effect of deep and tail grain boundary trap states on the performance of poly-ZnO TFT", 2022 IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON), 357-361, 2022.

3. D Dubey, M Goswami, K Kandpal, "Design of a Low-Voltage and Reduced Programming cycle AMOLED Pixel Circuit using IGZO TFTs", 2022 6th IEEE International Conference on Emerging Electronics (ICEE), Bangalor, India.
4. Sudhanshu Kumar, Amarnath Yadav, Kavindra Kandpal, "Concurrent Dual Band CMOS LNA With Improved IIP3 Using Modified DS Technique", IEEE iSES 2022.
5. Vallamchettty Nanda Deep, Manish Goswami, Kavindra Kandpal, "A 14 nm Single-Ended Schmitt Trigger SRAM Cell for Improved SNM & Delay", IEEE iSES 2022.
6. Ritika Choubey, Kavindra Kandpal, "Design of 7T-2C a-IGZO based pixel circuit for flexible AMOLED displays" IEEE 19th India Council International Conference, 2022.
7. Kingsuk Bag, Manish Goswami, Kavindra Kandpal, "FPGA Based Resource Efficient Simulation and Emulation Of Grover's Search Algorithm", IEEE 19th India Council International Conference, 2022.
8. Dipti, S Gaur, K Kandpal, PK Misra, M Goswami, "A 0.18 pJ/Conversion Step Hybrid Structure based ADC", 2022 2nd IEEE Asian Conference on Innovation in Technology (ASIANCON) 2022.
9. Kingsuk Bag, Kislay Deep, Sharad Verma, Shashi Prabha Yadav, Manish Goswami, Kavindra Kandpal, "Design of a Low-Voltage Charge-Sensitive Preamplifier Interfaced with Piezoelectric Tactile Sensor for Tumour Detection", International Symposium on VLSI Design and Test, VDAT, IIT Jammu, 2022
10. Krishan Mehra, Dhirendra Kumar, Kavindra Kandpal, Prasanna Kumar Misra, Manish Goswami, "Design of Hexagonal Oscillator for True Random Number Generation', 29th IEEE International Conference on Electronics, Circuits and Systems (ICECS), 2022.

Conferences attended outside IIIT Allahabad:

1. Delivered Distinguished lecture on Oxide TFTs: Towards Transparent & Flexible in 5th edition of Advance Materials Science World Congress, March 27-28, 2023, Barcelona, Spain.
2. Organised summer training on VLSI Design (STPVD-2021) at IIITA.
3. IEEEVLSI Design and Test, 2022, Session Chair, IIT Jammu.

Sponsored Project: "Nanometer scaled Topological Insulators for future micro and opto electronic applications" Funding Agency: DST, SERB, Grant No. CRG/2022/000070**,** Duration: 2023-2026**,** Role: Co-PI**,** Approved Funds: 3256264 Rs.

Membership: Senior Member IEEE, VLSI Society of India.



63. Dr. Himanshu Maurya

Designation: Assistant Professor (Contract)
Date of Joining: 17.11.2020
Department: Electronics and Communication Engineering
Research Interests: Microwave Remote Sensing, Modelling of PolSAR Data, ML/DL Applications in Satellite Images

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Scattering Dominance and Power Assessment from PolSAR Data Using Complex Unitary Rotations	Amit Kumar, Himanshu Maurya, A. Bhattacharya, R.K. Panigrahi	IEEE Geoscience and Remote Sensing Letters	20	2023	10.1109/LGRS.2023.3257322
Journal	Hybrid Three-Component Scattering Power Characterization from Polarimetric SAR Data Isolating Dominant Scattering Mechanisms	Himanshu Maurya, Avik Bhattacharya, Amit Kumar, Mishra, Rajib Kumar Panigrahi	IEEE Transactions on Geoscience and Remote Sensing	60	2022	10.1109/TGRS.2022.3215704
Journal	Retrieval of lunar surface dielectric constant using Chandrayaan-2 full-polarimetric SAR data	Kochar IK, Himanshu Maurya, AK, SS Bhiravarasu, A Das, D Putrevu, DK Pandey, RK Panigrahi	IEEE Transactions on Geoscience and Remote Sensing	60	2022	10.1109/TGRS.2022.3201050

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Member	2023

Membership in Committee within IIITA

Type	Name of Committee	Designation/Role	Start Date	End Date
Purchase	STC	Member	2021	-
Academic (Departmental)	DPGC	Member	2021	-



64. Dr. Anjali Gautam

Designation: Assistant Professor (Contract)

Date of Joining: 17.11.2020

Department: Information Technology

Research Interests: Biomedical Image Analysis, Image Processing, Pattern Recognition, Machine Learning

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Deep learning approach to automatically recognise license number plates	Anjali Gautam, Divyesh Rana, Saksham Aggarwal, Swaraj Bhosle & Hritik Sharma	Multimedia Tools and Applications	82	2023	10.1007/s11042-021-11342-9
Journal	Recent advancements of deep learning in detecting breast cancer: a survey.	Anjali Gautam	Multimedia Systems	29	2023	10.1007/s00530-022-01028-z
Conference	Overview of Image Inpainting Techniques: A Survey	Riya Shah, Anjali Gautam, Satish Kumar Singh	2022 IEEE Region 10 Symposium (TENSYMP)		2022	10.1109/TENSYMP54529.2022.9864513
Conference	Generative Adversarial Networks for Inpainting Occluded Face Images	Riya Shah, Anjali Gautam, Satish Kumar Singh	2022 IEEE 6th Conference on Information and Communication Technology (CICT)		2022	
Conference	Defective Fruit Classification using Variations of GAN for Augmentation	Prateek Durgapal, Divyesh Rana, Saksham Aggarwal, Anjali Gautam	9th UP Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)		2022	

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
International Conference on Computer Vision and Machine Intelligence (CVMI)	CVBL, IIIT Allahabad	International	12 August 2022	13 August 2022	Convener
5th One-Week Self-Sponsored Short Term Course on Advances in Deep Architectures for Signal, Image & Vision Applications (ADASIVA) from Aug 8-13, 2022, IIIT Allahabad, INDIA	CVBL, IIIT Allahabad	International	8 Aug 2022,	13 Aug 2022	Convener

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
One Week National Level Workshop on Deep Learning and its Application	JSS S&T University, Mysuru	National	14 Nov 2022	19 Nov 2022	Talk

5th One-Week Self-Sponsored Short Term Course on Advances in Deep Architectures for Signal, Image & Vision Applications (ADASIVA) from Aug 8-13, 2022, IIIT Allahabad, INDIA	CVBL, IIIT Allahabad	International	8 Aug 2022	13 Aug 2022	Talk
Invited expert talk on March 26, 2022	IT&M	National	26 Mar 2022	-	Talk
AICTE-ATAL Sponsored Five Days Faculty Development Program	NCET, Bangalore, INDIA.	National	17 Jan 2022	21 Jan 2022	Talk

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Member	2022-2023
ACM	Member	2022-2023

Membership in Committee within IIITA

Type	Name of committee	Designation/Role
Academic	DUGC 2022-23	Member
Admin	Warden	Warden
Admin	ATTSC	Member



65. Dr. Ramesh Kumar Bhukya

Designation: Assistant Professor (Contract)

Date of Joining: 07.12.2020

Department: Electronics and Communication Engineering

Research Interest: Speech Signal Processing, Automatic Speaker Recognition, Speech Analysis, Speech Recognition, Speech Enhancement, Emotion Analysis based on Speech and Image, Speech Pathology Detection, Digital Signal Processing, Image Processing and Computer Vision, Pattern Recognition and Artificial Intelligence, Biomedical Signal Processing

Publication

Type	Paper Title	Author(s)	Journal Title	Year
Conference	Combining Source and Vocal Tract Information for Text Dependent Speaker Verification	Bhukya R.K.	IEEE 6th Conference on Information and Communication Technology	2022
Conference	Text-Dependent Speaker Verification Under Practical Scenarios Using DTW-GMM Based Two-tier Authentication	Bhukya R.K.	-do-	2022
Conference	Mel Spectrogram Based Automatic Speaker Verification Using GMM-UBM	Kumar T.; Bhukya R.K.	9th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering	2022
Conference	Investigation Using MLP-SVM-PCA Classifiers on Speech Emotion Recognition	Jain K.; Chaturvedi A.; Dua J.; Bhukya R.K.	-do-	2022
Conference	Vocal Biomarker Based COVID-19 Detection Using DNN and Transfer Learning ResNet50	Raj A.; Bhukya R.K.	-do-	2022
Conference	COVID-19 Detection from Audio Signals Using LR-MLP-RF-GMM Classifiers	Kumawat P.; Utkarsh; Chikhale A.; Bhukya R.K.	-do-	2022
Conference	Speaker Authentication Using GMM-UBM	Thakur K.; Bhukya R.K.	-do-	2022
Conference	Vocal Biomarker Based COVID-19 Detection Using Convolutional and Deep Neural Networks	Raj A.; Bhukya R.K.	-do-	2022
Conference	Automatic Speaker Verification Spoof Detection and Countermeasures Using Gaussian Mixture Model	Bhukya R.K.; Raj A.	-do-	2022
Conference	Locally Weighted Enhanced DTW Based Online Signature Verification	Singh V.P.; Singh P.; Kamlaskar Y.; Bhukya R.K.	-do-	2022



66. Dr. Shanti Chandra

Designation: Assistant Professor (Contract)

Date of Joining: 04.02.2021

Department: Electronics and Communication Engineering

Research Interests: Digital Signal Processing, Biomedical Signal Processing, Wavelet and multirate signal processing Image Processing and Computer Vision, Pattern Recognition and Artificial Intelligence



67. Dr. Saurabh Verma

Designation: Assistant Professor (Contract)
Date of Joining: 23.03.2021
Department: Applied Sciences
Research Interests: Fractal Geometry, Functional Analysis, Approximation Theory

Publication

Type	Paper Title	Author	Journal Title	Vol/ Issue	Year	Page	DoI
Journal	Dimensional study of COVID-19 via fractal functions	E. Agrawal, S. Verma	The European Physical Journal Special Topics	Volume 232	2023	1061-1070	10.1140/epjs/s11734-023-00774-z
Journal	Non-stationary alpha-fractal surfaces	M. A. Navascues, S. Verma	Mediterranean Journal of Mathematics	20, Article number: 48	2023	18 pages	10.1007/s00009-022-02242-9
Journal	Fractal interpolation functions on products of the Sierpinski gaskets	S. A. Prasad, S. Verma	Chaos, Solitons and Fractals	166	2023	112988	10.1016/j.chaos.2022.112988
Journal	Bernstein Super Fractal Interpolation Function for Countable Data Systems	S. Chandra, S. Abbas, S. Verma	Numerical Algorithms	92	2023	2457–2481	10.1007/s11075-022-01398-5
Journal	A note on stability and fractal dimension of bivariate alpha-fractal functions	V. Agrawal, T. Som, S. Verma	Numerical Algorithms	93	2023	1811–1833	10.1007/s11075-022-01490-w
Journal	Dimension preserving approximation	S. Verma, P. R. Massopust	Aequationes Mathematicae	96	2022	1233–1247	10.1007/s00010-022-00893-3
Journal	Non-stationary zipper α-fractal functions and associated fractal operator	S. Jha, S. Verma, A. K. B. Chand	Fractional Calculus and Applied Analysis	25 (4)	2022	1527-1552	10.1007/s13540-022-00067-7
Journal	Iteration of operators with contractive mutual relations of Kannan type	R. N. Mohapatra, M. A. Navascues, M.V. Sebastian and S. Verma	Mathematics	10(15)	2022	2632	10.3390/math10152632
Journal	Bounded variation on the Sierpinski gasket	S. Verma, A. Sahu	Fractals	30 (07)	2022	2250147	10.1142/S0218348X2250147X
Journal	On bivariate fractal approximation	V. Agrawal, T. Som, S. Verma	The Journal of Analysis	30 (4)	2022	1765-1783	10.1007/s41478-022-00430-0

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
Workshop on Fractal Geometry and Related Fields	IIIT Allahabad	National	25 September 2022	01 October 2022	Coordinator

AMS Spring Western Sectional Meeting #1178, Special Session on Fractal Geometry and Dynamical Systems	AMS	International	14 May 2022	15 May 2022	Organizer with Dr. S. Jha and Prof. M.K. Roychowdhury

Seminar/Conference/Workshop/STP/FDP/etc. attended

Seminar/Invited talk Title	Organizer	National/ International	Start Date	End Date	Role
Construction of Fractal sets	IIIT Allahabad	National Workshop, namely, Fractal Geometry and Related Fields	25 September 2022	01 October 2022	Invited Speaker
Construction of Fractal measures	IIIT Allahabad	National Workshop, namely, Fractal Geometry and Related Fields	25 September 2022	01 October 2022	Invited Speaker
Some results on Quantization dimension	American Mathematical Society (AMS)	AMS Spring Western Sectional Meeting #1178, Special Session on Fractal Geometry and Dynamical Systems	14 May 2022	15 May 2022	Invited Speaker

Membership in Committee within IIITA

Type	Name of committee	Designation/ Role	Start Date	End Date
Academic	Departmental Website Committee	Coordinator	31 August 2021	till date
Academic	DPGC cum DUGC Committee	Member	26 July 2021	-



68. Dr. Upendra Kumar

Designation: Assistant Professor (Contract)
Date of Joining: 01.04.2021
Department: Applied Science
Research Interests: Experimental Condensed Matter Physics; Electroceramics

Teaching/Research Experience

Designation	Start Date	End Date	Organization
Assistant Professor	01-04-2021	Continue	IIIT Allahabad
Assistant Professor	24-06-2019	31-03-2021	Banasthali Vidyapith Rajasthan

Membership in Professional Bodies

Professional Body Name	Member Type	Membership Year
IEEE Membership	Professional	2021
IEEE Nanotechnology Council	Professional	2021
IEEE Dielectrics and Electrical Insulation Society Membership	Professional	2021
IEEE Photonics Society Membership	Professional	2021
IEEE Sensors Council		
IAPT	Life Member	2021
IPA	Life Member	2021

Membership in Committee

Name of committee	Designation/Role	Start Date	End Date
Departmental Purchase Committee	Member	26-07-2021	Continue
DPGC	Member	05-09-2021	Continue

7. Research Project

Project Title	Start Date	End Date	Designation /Role	Funding agency	Grant No.	Status	Amount
Development of cost-effective solid electrolyte for intermediate temperature solid oxide fuel cell	06-01-2023	06-01-2025	PI	IIIT Allahabad	IIITA/RO/ 2023/1567	Ongoing	10, 00,000

Journal Publication

Paper Title	Author	Journal Title	Vol/ Issue	Year	Pagination	DoI
Scaling studies of temperature dependence of electric conductivity and electric modulus spectra of solid solution $Sr_{2-x}La_xSnO_4$ ($x \leq 0.10$) Ruddlesden Popper Oxide	U Kumar, M Jatiya, MF Carrasco	Materials Research Bulletin	163,	2023	112221	10.1016/j.materresbull.2023.112221
Elemental concentration in renal stones by wavelength dispersive X-ray fluorescence spectrometry	Bali V, Khajuria Y, Pathak AK, Kumar U, Rai PK, Ghany C, Singh VK	X- Ray Spectrometry	--	2023	--	10.1002/xrs.3338

Compositional and morphological studies of kidney and gallbladder stones from fundamentals to advanced level using SEM–EDS technique: a short review	Varun Bali, Yugal Khajuria, Jitendra Sharma, Pradeep K. Rai, M. A. Gondal, Upendra Kumar & Vivek K. Singh	Arabian Journal for Science and Engineering.	48(1)	2023	13-29.	10.1007/s13369-022-07324-0
An Ab Initio Analysis of Structural, optical, Electronic, and Thermal Properties of Cubic SrSnO3 using Wein2k	Kumar A, Yadav V, Bhaskar HP, Kumar S, Kumar S, Kumar U.	East European Journal of Physics	(4)	2022	164-70	10.26565/2312-4334-2022-4-16
Study of structural, optical, dielectric, and electric properties of homovalently substituted Ce in SrTiO3 perovskite oxide	Yadav V, Cheema H, Maurya RS, Kumar S, Alvi PA, Sharma M, Kumar U.	Ionics	28(12)	2022	5513-24	10.1007/s11581-022-04782-2
Exploration of spectroscopic, surface morphological, structural, electrical, optical and mechanical properties of biocompatible PVA-GO PNCs.	Dangi SB, Hashmi SZ, Kumar U, Choudhary BL, Kuznetsov AE, Dalela S, Kumar S, Dolia SN, Kumar S, Sofi BF, Darwesh R.	Diamond and Related Materials	127	2022	109158	10.1016/j.diamond.2022.109158

Seminar / Invited Talk

Seminar Title	Organizer	National/ International	Start Date	End Date	Role
Webinar on NanoDCAL Software for Quantum Transport Nanoelectronics material & device Simulation using NanoDCAL Software	IIIT Allahabad	National	03-08-2022	03-08-2022	Coordinator
National Workshop on Career Counselling, Personality Development & Interaction Sessions (CCPDIS-2023)	MMV BHU Varanasi	National	6 Feb 2023	10 Feb 2023	Invited Talk
International Conference on Emerging Trends in Nanomaterials and Devices (ICONMD-23)	Department of Physics, Vellalar College for Women, Erode-12, Tamilnadu, India	International	2 March 2023	3 March 2023	Invited Talk
International Faculty Development (7 Days) Program on Advanced Functional Materials: Energy, Environment and Sustainable Development	SRM TRP Engineering College, Trichy	International	28.02.2023	09.03.2023	Invited Talk



69. Dr. Rahul H. Meshram

Designation: Assistant Professor (Contract)
Date of Joining: 08.04.2021
Department: Electronics and Communication Engineering
Research Interests: Reinforcement learning and machine learning for communication systems

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/Issue	Year	DoI/ISSN
Conference	Restless Bandits for Sensor Scheduling in Energy Constrained Networks	R Meshram, K Kaza, V Mehta, SN Merchant	Indian Control Conference	Eighth	2022	10.1109/ICC56513.2022.10093670
Conference	On the Outage Performance of Two-Way Relay-Assisted Multiuser Vehicular Networks Over Double Nakagami-m Fading Channels	Radhika Gour, Suneel Yadav, Neetesh Purohit, Rahul H Meshram	2022 IEEE 6th Conference on Information and Communication Technology (CICT)	6th	2022	10.1109/CICT56698.2022.9997987

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation / Role	Funding Agency/ Sponsorer	Grant Number	Status	Amount
Study of Weakly Coupled Partially Observable Markov Decision Processes, and Reinforcement Learning Algorithms	3 Years	09/2022	2025	PI	SERB	EEQ/2021/000812	Ongoing	21.73 Lakh

New Course Developed

Course Title	Course Program
Introduction to Machine Learning	M.Tech / Ph.D. (with Specialization)

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/International	Start Date	End Date	Role
Indian Control Conference 2022	IIT Madras	National	14 Dec 2022	16th Dec 2022	Presenter
CICT 2022	IIIT Gwaliar	National	18 Nov 2022	20 Nov 2022	Session Chair
Advanced Material Science Conference Barcelona		International	27 March 2023	28 March 2023	Presenter

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
INFORMS	Member	Oct 2022 till Oct 2023

Membership in Committee within IIITA

Type	Name of committee	Designation/Role	Start Date	End Date
Academic	DUGC Member	Member	Aug 2022-	March End 2023



70. Dr. Navjot Singh

Designation: Assistant Professor
Date of Joining: 23.04.2021
Department: Information Technology
Research Interests: Computer Vision, Machine Learning, Visual Saliency, Intelligent transportation Systems

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Improved Residual Network Based on Norm-Preservation for Visual Recognition	Bharat Mahaur, K. K. Mishra and Navjot Singh	Neural Networks	157	2023	10.1016/j.neunet.2022.10.023
Journal	Akash Punhani and Sanjiv Kumar Bhatia	Krishn Kumar, Navjot Singh, Akash Punhani and Sanjiv Kumar Bhatia	Applied Intelligence	53	2023	10.1007/s10489-022-03923-4
Journal	Semantic sensor network ontology based decision support system for forest fire management	Ritesh Chandra, Sonali Agarwal and Navjot Singh	Ecological Informatics	72	2022	10.1016/j.ecoinf.2022.101821

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
16th Innovations in Software Engineering Conference (ISEC 2023)	IIIT Allahabad	International	23.02.2023	25.02.2023	Local Organizing Committee
9th IEEE UP Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2022)	IIIT Allahabad	International	02.12.2022	04.12.2022	Conference Chair/Secretary
29th International Conference on Neural Information Processing (ICONIP 2022)	IIT Indore and IIIT Allahabad	International	22.11.2022	26.11.2022	Website Chair
5 days IEEE Computational Intelligence Society (CIS) Summer School on "Emerging Research Trends in Computational Intelligence Techniques to address Challenges in Biomedical Data and Imaging"	NIT Arunachal Pradesh	International	07.11.2022	11.11.2022	Organizing Committee Member
Two-weeks ATAL sponsored CPDP/FDP on "Advances in Artificial Intelligence"	IIIT Allahabad	National	31.10.2022	11.11.2022	Co-coordinator
International Conference on Computer Vision and Machine Intelligence (CVMI-2022)	IIIT Allahabad	International	12.08.2022	13.08.2022	Convener

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
16th Innovations in Software Engineering Conference (ISEC 2023)	IIIT Allahabad	International	23.02.2023	25.02.2023	Session Chair

29th International Conference on Neural Information Processing (ICONIP 2022)	IIT Indore and IIIT Allahabad	International	22.11.2022	26.11.2022	Session Chair
5th International Conference on VLSI, Communication and Signal Processing (VCAS-2022)	MNNIT Allahabad	International	14.10.2022	16.10.2022	Session Chair
International Conference on Computer Vision and Machine Intelligence (CVMI-2022)	IIIT Allahabad	International	12.08.2022	13.08.2022	Session Chair
Faculty Development Program on Entrepreneurship, Innovations & Digital Skills in New Era of Artificial Intelligence	Moradabad Institute of Technology	National	26.07.2022	26.07.2022	Expert Lecture
Refresher Course in Computer Science	DoCS, Ramanujan College, DU	National	02.05.2022	16.05.2022	Expert Lecture
Faculty Development Programme on "Digital Image Processing and Analysis: Applications with Practicals"	DoCS, SSCBS, DU and MHFDC, HC, DU	National	29.04.2022	29.04.2022	Expert Lecture

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Senior member	2022

Membership in Committee within IIITA

Type	Name of committee	Designation/Role	Start Date	End Date
Admin	Grievance Redressal Committee	Minority Representative	09.12.2022	Till date
Department	Codeplus	Faculty Incharge	13.12.2022	Till date
Admin	Robe Distribution and Security Collection Committee for 17th Convocation Committee	Member	-	15.02.2023
Admin	Hospitality/ Food Committee for Global Alumni Meet	Member	-	06.11.2022
Admin	Students Travel Support Committee	Member Secretary	07.09.2022	Till date
Academic	Time-Table Committee	Member	12.07.2022	Till date
Admin	Alumni Think Tank Support Committee	Member	29.12.2021	Till date
Academic	Department Under Graduate Committee (DUGC)	Member	30.08.2022	Till date
Academic	Department Post Graduate Committee (DPGC)	Member	01.04.2022	30.08.2022
Admin	Academic Planner Committee	Member	01.04.2022	Till date



71. Dr. Nabajyoti Mazumdar

Designation: Assistant Professor (Contract)
Date of Joining: 29.04.2021
Department: Information Technology
Research Interests: Internet of Things, Wireless Sensor Networks, Unmanned Areal Vehicles

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Secure data authentication and access control protocol for industrial healthcare system	Daya Sagar Gupta, Nabajyoti Mazumdar, Amitava Nag, Jyoti Prakash Singh	Journal of Ambient Intelligence and Humanized Computing	14, pp. 4853–4864	2023	10.1007/s12652-022-04370-2
Conference	A Comprehensive Study of Solar Energy Harvesting System in Wireless Sensor Networks	Dipak Kumar Sah, Nabajyoti Mazumdar, Pankaj Pal, Tarachand Amgoth	9th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON) 2022		2022	10.1109/UPCON56432.2022.9986433
Conference	A comparative study of survey papers based on energy efficient, coverage-aware, and fault tolerant in static sink node of WSN	Hanif Zafor, Nabajyoti Mazumdar, Amitava Nag	9th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON) 2022		2022	10.1109/UPCON56432.2022.9986459
Conference	An energy efficient waste collection, segregation, and processing of Municipal Solid Waste in urban area using WSN	Hanif Zafor, Nabajyoti Mazumdar, Amitava Nag	9th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON) 2022		2022	10.1109/UPCON56432.2022.9986468
Book Chapter	Green cloud computing for IoT based smart applications	Sangeeta Kakati, Nabajyoti Mazumdar, Amitava Nag	Green mobile cloud computing		2022	10.1007/978-3-031-08038-8_10
Conference	IoT for Smart Healthcare: Opportunities, Challenges and Technology	Sushreeta Tripathy, Usha Manasi Mohapatra, Nabajyoti Mazumdar	International Conference on Machine Learning, Computer Systems and Security (MLCSS) 2022		2022	10.1109/MLCSS57186.2022.00039
Conference	Security and Privacy Preserving Online Student Feedback Management System	Anupama Mondal, Soumyadev Maity, Nabajyoti Mazumdar, Suman Sau	International Conference on Machine Learning, Computer Systems and Security (MLCSS) 2022		2022	10.1109/MLCSS57186.2022.00075
Journal	A buffer-aware dynamic UAV trajectory design for data collection in resource-constrained IoT frameworks	Nabajyoti Mazumdar, Saugata Roy, Amitava Nag, Jyoti Prakash Singh	Computers and Electrical Engineering	Vol. 100, pp. 107934	2022	10.1016/j.compeleceng.2022.107934

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation / Role	Funding Agency/ Sponsorer	Grant Number	Status	Amount
Development of Multi-UAV Enabled Wireless Powered Collaborative Mobile Edge Computing System for Time-Sensitive loT Applications	3 years	08/02 /2023	07/02/ 2026	PI	SERB-DST	EEQ/2022 /000400	Ongoing	Rs. 27,33,759

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Senior member	2022-23

Membership in Committee within IIITA (01.04.2022 to 31.03.2023)

Type	Name of Committee	Designation/ Role
Academic	DUGC	Member



72. Dr. Surya Prakash

Designation: Assistant Professor (Contract)
Date of Joining: 30.04.2021
Department: Electronics and Communication Engineering
Research Interests: Embedded System

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Composite imagery-based non-uniform illumination sensing for system health monitoring of solar power plants	Sirshendu Arosh, Kuntal Ghosh, Dharmendra Kumar Dheer, Surya Prakash	Journal of Solar Energy Engineering: Including Wind Energy and Building Energy Conservation	145/1	2023	10.1115/1 .4054921
Journal	Challenges, Configuration, Control, and Scope of DC Microgrid Systems: A Review	Rinki Maurya, Surya Prakash, Ashutosh Kumar Singh	Journal of Electrical Engineering & Technology	18	2022	10.1007/ s42835-02 2-01304-y
Conference	Impersonated Human Speech Chatbot with Adaptive Frequency Spectrum	G. Chettiar, A. Shukla, P. Nalwaya, K. Sethi and Surya Prakash	2023 3rd International Conference on Intelligent Communication and Computational Techniques (ICCT), Jaipur, India, 19-20 January 2023		2023	10.1109/IC CT56969.20 23.10076120.
Conference	Efficient Solution to Develop an Exercising Algorithm using Model-Centric and Data-Centric Artificially Intelligent Approaches	M. Agarwal, V. Mittal and Surya Prakash	2022 International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT), Sakheer, Bahrain, 20-21 November 2022		2022	10.1109/ 3ICT565 08.2022.9 990612.
Conference	Real-Time EAR Based Drowsiness Detection Model for Driver Assistant System	P. Singh, S. Mahim and Surya Prakash	2022 International Conference on Signal and Information Processing (IConSIP), Pune, India, 26-27 August 2022		2022	10.1109/IC oNSIP496 65.2022.10 007514
Conference	Social Distance Monitoring to Enhance the Safety from COVID-19 Infection	M. Keshav, A. Sah and Surya Prakash	2022 2nd Asian Conference on Innovation in Technology (ASIANCON), Ravet, India, 26-28 August 2022		2022	10.1109/ASI ANCON553 14.2022.990 8929
Conference	Structural Design and Analysis of MEMS Comb Drive Capacitive Accelerometer for Seismic Earthquake Early Warning	K. Bag, S Vaishampayan, Surya Prakash	2022 IEEE 3rd International Conference for Emerging Technologies 2022, (INCET), Belgaum, India, 27-29 May, 2022		2022	10.1109/IN CET54531. 2022.98248 06

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation /Role	Funding Agency/ Sponsorer	Grant Number	Status	Amount
Design and Implementation of Biocompatible Energy Harvesting Device for Low Frequency Operation	3 Years	26 Dec, 2022	25 Dec, 2025	Co-PI	CRG-SERB	CRG/2022 /009226	Ongoing	Rs. 5499307



73. Dr. Boddepalli Santhibhushan

Designation: Assistant Professor (Contract)
Date of Joining: 05.05.2021
Department: Electronics and Communication Engineering
Research Interests: VLSI Design, Nano-Electronics, Device Modelling, Energy Storage

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Binder-Free Supercapacitors Based on Thin Films of MWCNT/GO Nanohybrids: Computational and Experimental Analysis.	Sandeep Pandey, Mayank Pathak, Manoj Karakoti, Gaurav Tatrari, Boddepalli Shantibhusan, Pawan Singh Dhapola, Sunil Dhali, Anurag Srivastava, Sravendra Rana, and Nanda Gopal Sahoo.	Catalysts	13(2)	2023	10.3390/catal13020235
Journal	Polymer hydrogel based quasi-solid-state sodium-ion supercapacitor with 2.5 V wide operating potential window and high energy density.	Mohammed Saquib Khan, Boddepalli SanthiBhushan, Kailash Chandra Bhamu, Sung Gu Kang, Himmat Singh Kushwaha, Atul Sharma, Rajnish Dhiman, Ragini Gupta, Malay Kumar Banerjee, and Kanupriya Sachdev.	Applied Surface Science	607	2023	10.1016/j.apsusc.2022.154990
Journal	Bulk production of zinc doped reduced graphene oxide from tire waste for supercapacitor application: Computation and experimental analysis.	Gaurav Tatrari, Chetna Tewari, Mayank Pathak, Manoj Karakoti, Bhashkar Singh Bohra, Sandeep Pandey, Boddepalli SanthiBhushan, Anurag Srivastava, Sravendra Rana, and Nanda Gopal Sahoo.	Journal of Energy Storage	53	2022	10.1016/j.est.2022.105098
Journal	Trans-polyacetylene based organic spin valve for a multifunctional spin-based device: A first principle analysis.	Kumar Gaurav, Boddepalli SanthiBhushan, Gonzalo Gutierrez, Rajeev Ahuja, and Anurag Srivastava.	Journal of Science: Advanced Materials and Devices	7 (3)	2022	10.1016/j.jsamd.2022.100459
Journal	Investigation of pristine and B/N/Pt/Au/Pd doped single-walled carbon nanotube as phosgene gas sensor: A first-principles analysis	Sai Shirov Katta, Shailendra Yadav, Abhay Pratap Singh, Boddepalli SanthiBhushan, and Anurag Srivastava.	Applied Surface Science	588	2022	10.1016/j.apsusc.2022.152989
Book Chapter	Dielectrics in Electronic and Energy Storage Devices (Book Name: An	Anurag Srivastava Sonal Agrawal, Kumar Gaurav, Sushmita Dandeliya, Boddepalli SanthiBhushan,	Nova Science Publishers		2022	10.52305/NVBF3091

	Introduction to Permittivity)	Parveen Saini				
Conference	MIPS Based 32-Bit RISC Processor with Thermal Management Unit and Flexible Pipelining Structure.	Pammi Vijay Bharath, and Boddepalli SanthiBhushan.	IEEE 9th UP Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)		2022	10.1109/UPCON56432.2022.9986466

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation / Role	Funding Agency /Sponsorer	Grant Number	Status	Amount
Capacitive performance of doped 2D/1D structures of Graphene and Silicene under external strain for flexible devices	3 Years	2022	2025	PI	IIIT Allahabad	I1ITA/RO/1523/ 2022	Ongoing	Rs. 9.32 Lakhs

Patent/Copyright

Title of the Patent /Copyright	Inventor(s)	Assignee / Organisation	Application Number	Patent/ Copyright Number	Filing Date	Publication Date	Status
Sanitizer dispensing band (Design Patent)	Dr. Boddepalli Santhibhushan, Dr. Praveen Pawar, Dr. Ram Kishan Dewangan, Dr. Vijay Kumar Bohat	The Patent Office	364409-001	364409-001	19/05/2022	04/01/2023	Granted

New Course Developed

Course Title	Course No. (if any)	Course Program
Emerging NanoElectronic Devices	BEND/MEND	B.Tech / M.Tech / Ph.D (Elective)

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
5th Advanced Materials Science: World Congress	Peers Alley Media, Canada	International	27-March-2023	28-March-2023	Distinguished Speaker
Innovation and Development, Technology Readiness Level in VLSI	IIIT Nagpur	National	16-Dec-2022	16-Dec-2022	Invited Speaker
9th IEEE UP Section international conference on electrical, electronics and computer engineering	IIIT Allahabad	International	2nd December 2022.	4th December 2022.	Author

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Senior Member	2022

Membership in Committee within IIITA

Type	Name of committee	Designation/Role	Start Date	End Date
Admin	GAM-2022	Sports/ Games/ family recreation committee	04-Nov-2022	06-Nov-2022
Admin	Convocation-2022	Seating/ Queuing and Degree Distribution Committee	18-Marh-2022	18-Marh-2022
Academic	UPCON-2022	Sponsorship Chair	2-Dec-2022	4-Dec-2022
Admin	ASMITA-2023	Faculty Coordinator	16-Feb-2023	18-Feb-2023



74. Dr. Radhika Gour

Designation: Assistant Professor (Contract)

Date of Joining: 17.05.2021

Department: Electronics and Communication Engineering

Research Interests: Device-to-Device (D2D) communication, NOMA, Resource optimization, Cooperative communication, Vehicular communication, Intelligent reflecting surfaces-based communication, Ambient backscatter communication

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/ Issue	Year	DoI
Journal	Joint uplink–downlink resource allocation for energy efficient D2D underlaying cellular networks with many-to-one matching	Radhika Gour, Anshul Tyagi	Physical Communication	58	2023	10.1016/j.phycom.2023.102016
Conference	On the Outage Performance of Two-Way Relay-Assisted Multiuser Vehicular Networks Over Double Nakagami-m Fading Channels	Radhika Gour, Suneel Yadav, N. Purohit; Rahul H. Meshram	2022 IEEE 6th Conference on Information and Communication Technology (CICT)		2022	10.1109/CICT56698.2022.9997987
Conference	D2D Communication for Next Generation Cellular Systems: A Review	Radhika Gour	Emerging Electronics and Automation		2022	10.1007/978-981-19-4300-3_26
Conference	Ergodic Secrecy Capacity Performance in RIS-Enabled Wireless Communications	Suneel Yadav, A. K.Yadav; Radhika Gour; N Purohit; D.S. Gurjar	2022 IEEE 6th Conference on Information and Communication Technology (CICT)		2022	10.1109/CICT56698.2022.9997998

Projects/Grants/Consultancy

Title of the Project /Grant/ Consultancy	Duration	Start Date	End Date	Designation /Role	Funding Agency /Sponsorer	Grant Number	Status	Amount
Resource Allocation for Vehicular Communication in Large Scale Networks	3 Year	25/04/2022	25/04/2025	Investigator	IIITA seed grant	IIITA/RO/147/2022	Ongoing	5 Lakhs

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
IEEE	Member	2022

Membership in Committee within IIITA

Type	Name of Committee	Designation/Role	Start Date	End Date
Academic	Time Table	Co-ordinator	Jan 2022	Jan 2023
Admin	Convocation committee	Co-ordinator	Feb 2023	March 2023



75. Dr. Muneendra Ojha

Designation: Assistant Professor

Date of Joining: 11.06.2021

Department: Information Technology

Research Interest: Deep Learning, Machine Learning, Natural Language Processing, Video Analytics, Semantic Web, Multi-Objective Optimization, Genetic Algorithms, Multi-Agent Systems

Publication

Type	Paper Title	Author(s)	Journal Title	Year
Journal	A study on video semantics; overview, challenges, and applications	Patel, Ashish Singh; Vyas, Ranjana; Vyas, O. P.; Ojha, Muneendra	Multimedia tools and applications	2022
Journal	Motion-compensated online object tracking for activity detection and crowd behavior analysis	Patel, Ashish Singh; Vyas, Ranjana; Vyas, O. P.; Ojha, Muneendra; Tiwari, Vivek	Visual computer	2023
Journal	Ontology-based detection and identification of complex event of illegal parking using SPARQL and description logic queries	Patel, Ashish Singh; Tiwari, Vivek; Ojha, Muneendra; Vyas, O. P.	Chaos solitons & fractals	2023
Journal	An NLP-guided ontology development and refinement approach to represent and query visual information	Patel, Ashish Singh; Merlino, Giovanni; Puliafito, Antonio; Vyas, Ranjana; Vyas, O. P.; Ojha, Muneendra; Tiwari, Vivek	Expert systems with applications	2023



76. Dr. Shiv Ram Dubey

Designation: Assistant Professor
Date of Joining: 26.07.2021
Department: Information Technology
Research Interests: Computer Vision and Deep Learning

Publication

Type	Paper Title	Author(s)	Journal Title	Vol/Issue	Year	DoI
Journal	UFKT: Unimportant Filters Knowledge Transfer for CNN Pruning	CH Sarvani, Shiv Ram Dubey, and Mrinmoy Ghorai	Neurocomputing, Elsevier	514:101-112	2022	10.1016/j.neucom.2022.09.150
Journal	AdaInject: Injection Based Adaptive Gradient Descent Optimizers for Convolutional Neural Networks	Shiv Ram Dubey, S.H. Shabbeer Basha, Satish Kumar Singh, and Bidyut Baran Chaudhuri	IEEE Transactions on Artificial Intelligence	In press	2022	10.1109/TAI.2022.3208223
Journal	CSA-GAN: Cyclic Synthesized Attention Guided Generative Adversarial Network for Face Synthesis	Nand Kumar Yadav, Satish Kumar Singh, and Shiv Ram Dubey	Applied Intelligence, Springer	52:12704–12723	2022	10.1007/s10489-021-03064-0
Journal	Activation Functions in Deep Learning: A Comprehensive Survey and Benchmark	Shiv Ram Dubey, Satish Kumar Singh, and Bidyut Baran Chaudhuri	Neurocomputing, Elsevier	503:92-108	2022	10.1016/j.neucom.2022.06.111
Journal	MobileAR-GAN: MobileNet based Efficient Attentive Recurrent Generative Adversarial Network for Infrared to Visual Transformations	Nand Kumar Yadav, Satish Kumar Singh, and Shiv Ram Dubey	IEEE Transactions on Instrumentation and Measurement	71:5009909	2022	10.1109/TIM.2022.3166202
Conference	AdaNorm: Adaptive Gradient Norm Correction based Optimizer for CNNs	Shiv Ram Dubey, Satish Kumar Singh, and Bidyut Baran Chaudhuri	IEEE Winter Conference on Applications of Computer Vision (WACV)	-	2023	10.1109/WACV56688.2023.00525
Conference	LiSHT: Non-Parametric Linearly Scaled Hyperbolic Tangent Activation Function for Neural Networks	Swalpa Kumar Roy, Suvojit Manna, Shiv Ram Dubey, and Bidyut Baran Chaudhuri	7th International Conference on Computer Vision and Image Processing (CVIP), (Springer)	-	2022	10.1007/978-3-031-31407-0_35
Conference	T2CI-GAN: Text to Compressed Image generation using Generative Adversarial Network	Bulla Rajesh, Nandakishore Dusa, Mohammed Javed, Shiv Ram Dubey, and P. Nagabhushan	7th International Conference on Computer Vision and Image Processing (CVIP), (Springer)	-	2022	10.1007/978-3-031-31417-9_23

Conference	Resolution Invariant Face Recognition	Priyank Makwana, Satish Kumar Singh, and Shiv Ram Dubey	International Conference on Computer Vision and Machine Intelligence (CVMI), (Springer)	-	2022	10.1007/978-981-19-7867-8_58
Conference	Target Detection using Transformer: A study using DETR	Akhilesh Kumar, Satish Kumar Singh, and Shiv Ram Dubey	International Conference on Computer Vision and Machine Intelligence (CVMI), (Springer)	-	2022	10.1007/978-981-19-7867-8_59
Conference	Moment Centralization based Gradient Descent Optimizers for Convolutional Neural Networks	Venkata Sai Sumanth Sadu, Shiv Ram Dubey, and Sreeja SR	International Conference on Computer Vision and Machine Intelligence (CVMI), (Springer)	-	2022	10.1007/978-981-19-7867-8_5
Conference	Context Unaware Knowledge Distillation for Image Retrieval	Yaswanth Reddy Bytasandram, Shiv Ram Dubey, Rakesh Kumar Sanodiya, and Ravi Ranjan Prasad Karn	International Conference on Computer Vision and Machine Intelligence (CVMI), (Springer)	-	2022	10.1007/978-981-19-7867-8_6
Conference	Vision Transformer Hashing for Image Retrieval	Shiv Ram Dubey, Satish Kumar Singh, and Wei-Ta Chu	29th IEEE International Conference on Multimedia and Expo (ICME)	-	2022	10.1109/ICME52920.2022.9859900

Projects/Grants/Consultancy

Title of the Project /Grant/Consultancy	Duration	Start Date	End Date	Designation/ Role	Funding Agency /Sponsorer	Grant Number	Status	Amount
Development of Deep Learning based Hashing Techniques for Image Retrieval	3 Years 8 Months	May 05, 2020	Dec 31, 2023	PI	Global Innovation and Technology Alliance (GITA)	GITA/DST/TWN/P-83/2019	Ongoing	Rs. 28,28,580
EMGNet: Development of Deep Learning Based Model for Hand Movements Classification using Surface EMG Signals	2 Years 6 Months	Feb 04, 2020	Aug 03, 2022	Co-PI	Science and Engineering Research Board (SERB)	CRG/2019/003801	Completed	Rs. 34,06,558

New Course Developed

Course Title	Course No. (if any)	Course Program
Visual Recognition	VRN/MVRN/PVRN	B.Tech / M.Tech / Ph.D.
Deep Learning	DEL/MDEL/PDEL	B.Tech / M.Tech / Ph.D.

Doctoral Theses Guided

Researcher Name	Theses Title	Theses Award Institute	Year
Nand Kumar Yadav	Image To Image Translation Using Generative Adversarial Networks	IIIT Allahabad	2023 (Thesis Submitted in Jan 2023)

Seminar/Conference/Workshop/STP/FDP/etc. organised

Title	Organizer	National/ International	Start Date	End Date	Role
9th IEEE UP Section Conference (UPCON)	IIIT Allahabad, India	International	Dec 02, 2022	Dec 04, 2022	Conference Convener
7th International Conference on Computer Vision and Image Processing (CVIP)	NIT Nagpur, India	International	Nov 04, 2022	Nov 06, 2022	Conference Convener
International Conference on Computer Vision and Machine Intelligence (CVMI)	IIIT Allahabad, India	International	Aug 12, 2022	Aug 13, 2022	Conference Chair
5th One-Week Self-Sponsored Short Term Course on Advances in Deep Architectures for Signal, Image & Vision Applications (ADASIVA)	IIIT Allahabad, India	National	August 08, 2022	August 13, 2022	Co-coordinator

Seminar/Conference/Workshop/STP/FDP/etc. attended

Title	Organizer	National/ International	Start Date	End Date	Role
IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)	IEEE Computer Society	International	Jan 03, 2023	Jan 07, 2023	Author
7th International Conference on Computer Vision and Image Processing (CVIP)	NIT Nagpur, India	International	Nov 04, 2022	Nov 06, 2022	Author
IEEE International Conference on Multimedia and Expo	IEEE Signal Processing Society	International	July 18, 2022	July 22, 2022	Author
IP Awareness/Training program under National Intellectual Property Awareness Mission	Intellectual Property Office and MoE's Innovation Cell, India	National	July 12, 2022	July 12, 2022	Participant

Membership in Professional Bodies

Professional Body Name	Member type	Membership year
Institute of Electrical and Electronics Engineers (IEEE)	Senior Member	2022-2023
Association for Computing Machinery (ACM)	Member	2022-2023
International Association of Comp. Sci. and Infor. Tech. (IACSIT)	Member	2022-2023
International Association of Engineers (IAENG)	Member	2022-2023

Membership in Committee within IIITA

Type	Name of committee	Designation /Role	Start Date	End Date
Admin	Institute Ranking, Library & E-Library	Faculty In-Charge	March 2023	Present
Academic	TA Management Committee, IT Department	Member	Dec 2022	Present
Academic	Time Table Committee, IT Department	Member	July 2022	Present
Academic	PG Project (M.Tech), IT Department	Coordinator	Sept 2021	Present
Academic	Post Graduate Committee (DPGC), IT Department	Member	Jan 2022	Present
Academic	PhD Admission Committee, IT Department	Member	Dec 2022	Dec 2022
Event	Accommodation & Transportation Committee, IIITA Global Alumni Meet (GAM)	Member	Nov 2022	Nov 2022
Academic	PhD Admission Committee, IT Department	Member	May 2022	May 2022

Membership in Committee outside IIITA

Type	Name of the Institution	Name of the Committee	Designation /Role	Start Date	End Date
Academic	IEEE UP Section	SAC Student Internship Sub-Committee	Member	March 2022	Present
Professional	IEEE UP Section	Signal Processing Society Chapter, IEEE Uttar Pradesh Section	Treasurer	Dec 2021	Present
Academic and Admin	IEEE	IEEE Student Branch, IIIT Allahabad	Faculty Mentor	Jan 2022	Present
Professional	IEEE	IEEE Standards Association for Industrial AI	Member	Aug 2020	Dec 2022

Honours and Awards

Awarded Year	Award Name	Awarded by
2022	IAPR Best Paper Award	International Conference on Computer Vision and Machine Intelligence (CVMI)

7

Research & Development

- Publications Analytics (2018-23)
- Patents & Copyrights
- Projects

WoS Publications Analytics (2018-23)

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Publications	Citing Articles	Times Cited		H-Index
838 Total	4,722 Analyze Total	5,351 Total	6.39 Average per item	30
From 2018 to 2023	4,404 Analyze Without self-citations	4,783 Without self-citations		

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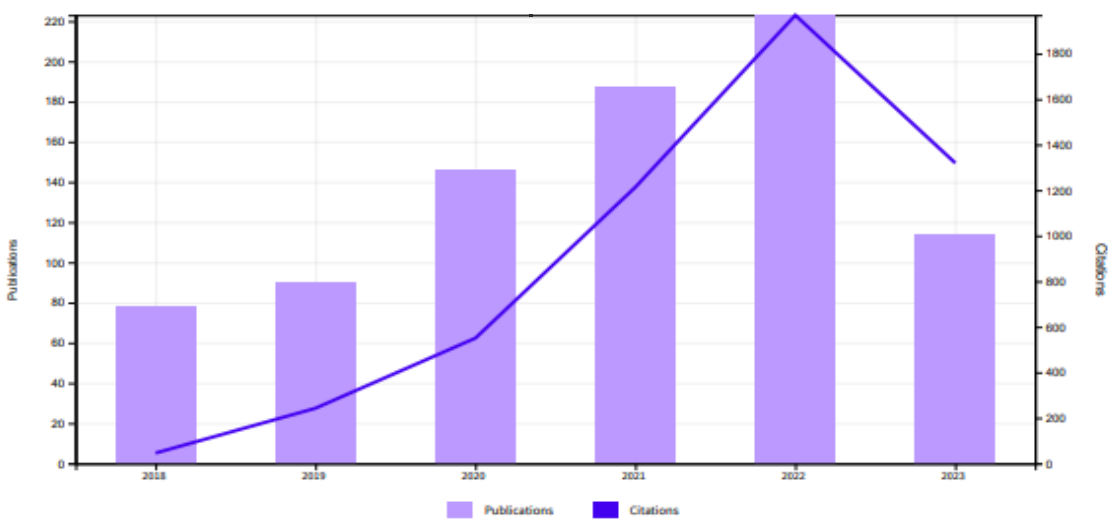

838 Publications Sort by: Citations: highest first 1 of 17

	Citations						
	< Previous year				Next year >	Average per year	Total
	2019	2020	2021	2022	2023		
Total	243	551	1,214	1,969	1,320	764.43	5,351

Patents & Copyrights

IIIT-A innovators has so far filed (registered) **41 Patent** applications, and obtained **16 S/W (software) Copyrights**. Out of them, **12 Patents** have been **granted** by various patent offices. The details of *Filed / Published / Granted - IPRs* are described as follows:

(I) "PATENTS" Filed by IIIT Allahabad

Sl. No.	Title of Filed / Published/ Granted PATENTS.	Patent's Application / Publication/ Patent – Number & Corresponding Dates	Awarding Country	Inventors / Authors	Current Status
1.	SYSTEM FOR EXECUTING A SEQUENTIAL PROGRAMME IN PARALLEL WITH AUTOMATIC FAULT TOLERANCE	884/DEL/2002 India Patent No: 247171	Indian	Miranda Trevor, Mohan Manindra	Certificate Granted (Active)
		US Patent No.10/650/141 DATE OF FILING 29/08/2002 PUBLICATION DATE (U/S 11A) 23/01/2009 POST GRANT JOURNAL DATE 01/04/2011	USA		Certificate Granted (Active)
2.	METHOD AND A DEVICE FOR DETECTING WATERMARK IN DIGITAL DATA	563/DEL/2002; Patent Number :231097 Date of filing: 16/05/2002; Date of publication: 20/05/2005	Indian	Jalan Abhinav, Chadha Retesh	Date Of Certificate Issue 30/03/2009
		US Patent No.10/650/141	USA		Certificate Granted (Active)
3.	AN ENCRYPTION AND DECRYPTION SYSTEM AND METHODS	1971/DEL/2005 Date of filing: 26/07/2005; Date of publication: 02/10/2009	Indian	Ashish Kumar Agrawal; Ajay Choudhari; R. C. Tripathi	Application Abandoned; (Because Objection raised from registry was not answered)
4.	A BLOCK BASED METHOD AND APPARATUS FOR OPTIMIZED TERRAIN RENDERING ALLOWING PAGING OF VERY LARGE DATA WITH MULTIPLE LEVELS OF DETAILS (LOD) AND TRIANGLE STRIP BASED ON INDEXING.	757/Del/2006;	Indian	Anupam Agrawal, Ashish Kumar Agarwal	Application Abandoned U/S 21(1)
5.	SOFT COMPUTING BASED	0492/DEL/2007;	Indian	Nandi Gora Chand,	Application

	MICROPROCESSOR CONTROLLED ADAPTIVE MODULAR ACTIVE LEG SYSTEM	Date of filing: 06/03/2007		Tiwari Murli Dhar, Gupta Bhaskar, Khalil Jibran	Abandoned U/S 21(1)
6.	CUSHY MOUSE KIT-ELECTRONOMIC MOUSE AND MOUSE PAD	2215/DEL/2007 Date of filing: 23/10/2007; Date of publication: 08/05/2009	Indian	Bhaskar Gupta; Ankit Tandon; Saurabh Pandey	Application Abandoned; (as objection was not answered)
7.	METHOD AND SYSTEM FOR AN ADAPTIVE AND AUTOMATIC BRIGHTNESS CONTROL MECHANISM	399/DEL/2007; Date of filing: 26/02/2007; Date of publication: 26/02/2007	Indian	Saurabh Pandey; Bhaskar Gupta; Ankit Tandon	Application Abandoned U/S 21(1)
8.	A METHOD AND A SOFTWARE IMPLEMENTED TOOL FOR DETECTING PLAGIARISM IN DOCUMENTS	779/DEL/2009 Date of filing: 15/10/2009; Date of publication: 20/04/2012	Indian	Saurabh Odhyan; Anand Mazumdar; Tarun Kumar; R. C. Tripathi; M. D. Tiwari	Application under examination
9.	IDENTIFICATION OF SPECIFIC CLASS OF QUASI-PERIODIC SIGNALS FROM THE PHASE-SPACE FRACTAL DIMENSION OF ITS DIFFERENT ORDER-FEATURES	2737/DEL/2010; Date of filing: 18/11/2010; Date of publication: 31/08/2016	Indian	Prof. T. Lahilri Upendra Kumar Arunava Das Roy Hrishikesh Mishra Subrata Sarkar M. D. Tiwari	Application Awaiting Examination
10.	A PERSONAL HUMAN COMPUTER INTERACTION SYSTEM BASED ON EYE GAZE TRACKING	1294/DEL/2012 PUBLICATION DATE (U/S 11A) : 13/11/2015	Indian	Santosh Kumar Barnwal; R. C. Tripathi; Murli Dhar Tiwari	Certificate Granted (Active)
11.	CAPILLARY ELECTROPHORESIS CHIP.	US Patent Publication number: US 8715558 B2 POST GRANT JOURNAL DATE: May 6, 2014	USA	Dr. Amit Prabhakar, Prof. Soumyo Mukherji	Certificate Granted (Active)
12.	POLYMER ANALYSIS CHIP.	US Patent Publication number: US 8441645 B2 POST GRANT JOURNAL DATE: May 14, 2013	USA	Dr. Amit Prabhakar, Prof. Soumyo Mukherji	Certificate Granted (Active)
13.	A METHOD AND SYSTEM FOR VELOCITY MEASUREMENT OF A FLUID IN A CHANNEL.	2891/MUM/2012 PUBLICATION DATE (U/S 11A) : 01/10/2012	Indian	Dr. Amit Prabhakar, Prof. Soumyo Mukherji, Sonali Tripathy	Application in Amended stage
14.	MICRO DEVICE FOR SEPARATING BLOOD	2344/MUM/2013 PUBLICATION DATE	Indian	Dr. Amit Prabhakar, Prof. Amit Agrawal,	Certificate Granted

	PLASMA FROM WHOLE HUMAN BLOOD AND METHOD FOR MAKING THE SAME.	(U/S 11A) : 19/06/2015		Y.V. Balavarun Kumar	(Active)
15.	LAB-ON-CHIP OPTICAL BIOSENSOR BASED ON MULTIPLE FOCUSING OF INCIDENT BEAM.	Information not Available	Indian	Dr. Amit Prabhakar, Prof. Soumyo Mukherji, Sonali Tripathy	Application Not Yet Published
16.	A METHOD AND APPARATUS FOR SIMILARITY DETECTION FOR DOCUMENTS BASED ON CONTENTS INCLUDING TEXTS TABLES FLOWCHARTS AND EQUATIONS	160/DEL/2014 PUBLICATION DATE (U/S 11A) : 24/07/2015	Indian	Siddharth, R. C. Tripathi, Murli Dhar Tiwari.	Examination awaited
17.	A COST EFFECTIVE AND DISPOSABLE MICROPUMP FOR LAB ON CHIP APPLICATIONS.	3411/MUM/2014 PUBLICATION DATE (U/S 11A): 06/05/2016	Indian	Dr. Amit Prabhakar, Prof. Amit Agrawal, B.S. Bharat.	Certificate Granted (Active)
18.	A MICROFLUIDIC DEVICE WITH IMMOBILIZED NANO-PARTICLES AND COUPLED ULTRAVIOLET LIGHT SOURCE, FOR WATER DISINFECTION	Application Number: 201811028600; Date of Filing: 30/07/2018 PUBLICATION DATE (U/S 11A) : 22/03/2019	Indian	Dr. Amit Prabhakar, Mehul Agrawal, Neha Mishra, Dr. Deepti Verma, Dr. Vishnu Agrawal	Application Awaiting Examination
19.	A PORTABLE CORONA-DISCHARGE SYSTEM WITH CUSTOM MADE ELECTRODES, FOR PDMS HYDROPHILIC TREATMENT, AND BONDING FOR MICROFLUIDIC CHIP FABRICATION.	Application Number: 201811028599; Date of Filing: 30/07/2018 PUBLICATION DATE (U/S 11A): 17/08/2018	Indian	Dr. Amit Prabhakar, Amar Dhwaj, Neha Mishra, Rohit Vishwakarma	Application Awaiting Examination
20.	APPARATUSES AND METHODS FOR SEPARATION OF SUSPENDED PARTICLES PRESENT IN LIQUID	Application Number: 201911019244; Date of Filing: 14-05-2019	Indian	Dr. Amit Prabhakar, Praveen Kumar, Neha Mishra, Ankur Jaiswar Dr. Deepti Verma,	Filed via:- Technology Informatio, Forecasting and Assessment Council (TIFAC), India
21.	COST EFFECTIVE MICRO IMPEDANCE PUMP FOR LAB ON CHIP APPLICATIONS.	Indian Patent Application Number: 201911039486. Filed on September 30, 2019	Indian	Dr. Amit Prabhakar, Amar Dhwaj	Filed via:- Technology Informatio, Forecasting and Assessment Council (TIFAC), India
22.	A SYSTEM FOR CREATING	Indian Patent	Indian	Dr. Amit Prabhakar,	Filed

	PRECISE MICROSTRUCTURES BASED ON VARIOUS POLYMERS USING MULTIPLE APPARATUS	Application Number: 202011042433 30/09/2020		Amar Dhwaj, Neha Mishra,	
23.	A MICRO-SYSTEM WITH MICROHEATER INTEGRATED OPTICAL WAVEGUIDE FOR INVESTIGATING DIVERSE PHYSICAL AND CHEMICAL INTERACTIONS	Indian Patent Application Number: 202011042443 30/09/2020	Indian	Dr. Amit Prabhakar, Nimisha Roy, Vibhor Gupta, Neha Mishra,	Filed
24.	CNC MOUNTABLE Z-AXIS, FOR A VERSATILE3D PRINTER MACHINE	Indian Patent Application Number: 328285-001 16/03/2020	Indian Design Patent	Dr. Amit Prabhakar, Prashant Nayak, Amar Dhwaj, Ankur Jaiswar	Certificate Granted (Active)
25.	A CONJUGATE OF L-DOPA AS AN EFFICACIOUS THERAPEUTIC AGENT FOR PARKINSON'S DISEASE	Indian Patent Application Number: 202011042444. Filed on 30/09/2020	Indian	Prof (Mrs) Krishna Misra	Filed
26.	MICROFABRICATION OF METAL NANOPARTICLE COATED SHAPE-ENCODED MAGNETIC MICROPARTICLES FOR APPLICATION IN MULTIPLEXED BIOASSAYS AND CHEMICAL CATALYSIS	Application No.: 202211005459; PATENT FILED on 2/1/2022;	Indian	Dr. Amit Prabhakar, Amar Dhwaj, Ankur Jaiswar, Nimisha Roy, Dr. Deepti Verma	Filed
27.	FABRICATION OF FULLY MICRO-VASCULARIZED BIOPOLYMER MATRIX USING VARIOUS SACRIFICIAL MICROSTRUCTURES FOR TISSUE-ENGINEERING AND BIO-MICROFLUIDICS APPLICATIONS	Application No.: 202211005458; PATENT FILED on 2/1/2022;	Indian	Dr. Amit Prabhakar, Amar Dhwaj, Dr. Deepti Verma	Filed
28.	A DEVICE AND METHOD TO DESIGN A COST-EFFECTIVE ORGAN-ON-CHIP PROTOTYPE FOR DRUG TOXICITY TESTING IN LUNG AND LIVER TISSUES;	Australian Innovation Patent: 2021104949 PATENT FILED on 8/4/2021;	Australian Innovation Patent	Dr. Amit Prabhakar, Nimisha Roy, Jyoti Kashyap, Prof Rakesh Kumar Tyagi, Dr. Deepti Verma.	Certificate Granted (Active)
29.	POTATO PEEL BASED C-DOTS FOR THE DEVELOPMENT OF NANOBOTS TO DEGRADE INDUSTRIAL EFFLUENTS	Application No.: 202011049379 Filed on: 20-11-2020 Published on: 26-03-2021	Indian	Dr. Amaresh Kumar Sahoo, Dr. Sintu Samanta, Saurabh Shivalakar, Arushi Verma, Dr. Pavan	Filed

	CONTAINIING TOXIC DYES.			Kumer Gautam	
30.	AN ARTIFICIAL INTELLIGENCE-BASED LEARNING ASSESSMENT SYSTEM FOR DETERMINING IMPROVEMENTS USING COLLECTED DATA FROM VARIOUS EQUIPMENT	Application No.: 202111034867 Filed on: 03-08-2021 Published on: 05-11-2021	Indian	Santosh Kumar Barnwal, Prof. Uma Shanker Tiwari	Filed
31.	AN ELECTRONIC NOSE DEVICE TO IDENTIFY THE RIPENING IN FRUITS BY SENSING VOLATILE ORGANIC COMPOUNDS.	Application No.: 202111034865 Filed on: 03-08-2021 Published on: 11-06-2021	Indian	Pankaj Tyagi, Prof. Pritish Varadwaj, Prof. Uma Shanker Tiwari, Dr. Suneel Yadav	Filed
32.	A PESTICIDE SPRAYING FLYING DEVICE FOR OPTIMIZING THE QUANTITY SPRAYED AND MAKING IT TIME EFFICIENT.	Application No.: 202111018129 Filed on: 20-04-2021 Published on: 11-06-2021	Indian	Paavan Kumar, Shefali Vinod Ramteke, Prof. Pritish Varadwaj, Dr. Suneel Yadav	Filed
33.	DESIGN AND WORKING OF A HIGH-STABLE AND LOW POWER SRAM CACHE MEMORY.	Application No.: 202211009238 Filed on: Year 2022 awaiting Publication	Indian	Prof. Manish Goswami; Jitendra Kumar mishra	Filed
34.	SOCIAL NETWORKING MOOD RECOGNITION ALGORITHM FOR CONFLICT DETECTION AND MANAGEMENT OF EDUCATIONAL INSTITUTIONS	Australian Innovation Patent: Application No.: 2021106074 Filed on: 19-08-2021 granted on: 10-11-2021	Australian Innovation Patent	Sarthak Sengupta, Dr. Anurika Vaish	Certificate Granted (Active)
35.	A METHOD FOR RAPID DETECTION OF CORONAVIRUS WITH HIGHLY LUMINESCENT GOLD NANOCLUSTERS.	Application No.: 202211031810 Filed on: 3/06/2022	Indian	Dr. Amaresh Kumar Sahoo Ms. Tayyaba afshan	Filed
36.	ORALLY ADMINISTERED OSMOTIC PUMP FOR DRUG DELIVERY AT A CONTROLLED RATE	Application No.: 202311023284 Filed on: 3/23/2023	Indian	Dr. Amit Prabhakar Komal Sharma Sonal Jaiswal Dr. Deepti Verma	Filed
37.	DEVELOPMENT OF A BIOMIMETIC MICROFLUIDIC RESPIRATORY ASSIST DEVICE-UNIT WITH HIGH GAS PERMEANCE	Application No.: 202311023285 Filed on: 3/23/2023	Indian	Dr. Amit Prabhakar Ankur Jaiswar Priyanka Kumari Dr. Deepti Verma	Filed
38.	GREEN SYNTHESIZED SILVER NANOPARTICLES	Application No.: 202311020456	Indian	Dr. Nidhi Mishra	Filed

	IMMOBILIZED POLY (?-CAPROLACTONE) AND NANOCELLULOSE BASED BIOCOMPOSITES FOR WOUND HEALING.	Filed on: 3/23/2023		Shagun Varshney Amar Dhwaj Dr. Amit Prabhakar	
39.	A METHOD AND SYSTEM FOR PERFORMING SENTIMENT ANALYSIS ON TWEETS FROM GENUINE TWITTER ACCOUNTS	Patent application number - 2023/02598 Date of filing - 27 February 2023	South African patent	Dr. Anurika Vaish, Sarthak Sengupta and Soumyadeep Basu.	Filed
40.	ROBUSTNESS EVALUATION DEVICE	Design No.: 374674-001 Date: 26/11/2022	Indian Design Patent	Dibyojyoti Bhattacharjee Prof. Ranjit Singh	Certificate Granted (Active)
41.	BUILDING SECURITY SYSTEM WITH IOT SENSORS AND MACHINE LEARNING	Patent application number: 20 2022 101 451.5 Date of filing - 18-Mar-2022	Patent Authority: German Patent Office.	Dr Vishal Singh Chandel, Kumkum Dubey, Dr Tarun Kumar Gupta, Shivendu Mishra, Dr Amit Kumar Pandey, Ankush Pandey, Shivendra Kumar Pandey, Vivek Patel, Prince Rajpoot, Dr Abhishek Vaish, Ritika Yaduvanshi	Filed. (In pending)
42.	SMART DEVICES TO MONITOR THE E-WALLET UTILIZATION AND THE SPENDING BEHAVIOUR OF THE USER	Patent application number: 202211068086 Date of filing: 26-11-2022 TEMP/E-1/78537/2022-DEL	Indian	Kajol Prof Ranjit Singh Prof. Dibyojyoti Bhattacharjee Summaiya Gauhar	**Awaiting Complete Specification**

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SI.	Software	Registration No.	Description
1.	LIBSITE	S/W-1383/2003	This software has been developed and is in use of IIIT-A for its web based library system. It has 3 Modules as below. 1. On line Public Access Module (OPAM) 2. On line Member Access Module (OMAM) 3. On line Management Module (OMM)
2.	EXCITE	S/W-1716/2005	This is a web based Management Information system developed in the institute and is being used by its examination cell. It has two sections one each for use by faculty and staff in an open way whereas the second part is for confidential information used by the Administration wing.
3.	PC STORE	51W-3067/2006	A Maintenance Information system for computer hardware store and Maintenance used in IIIT-A

4.	AWARE	-	This is a software tool to embed a watermark in any image content with features to withstand attacks like of repeated. 1. Compressions and decompressions 2. Scaling. 3. Cropping etc. The watermark so embed can be easily retrieved only by the genuine owner to provide evidence in case of image piracy.
5.	CODECOP	51W-3831/2008	A s/w tool to catch the plagiarism in computer s/w source code and to provide as columnar display of plagiarism amounts as lines of code with proper link address of prior art. It can detect changes in variables name, function, definitions, function calls changes in loping constructs etc.
6.	INNOVATION DETECTOR	S/W-3833/2009	It is a web-based automation software system to point out the plagiarism made in a text. For a given document, the system can find and display in a columnar way the portions copied along with the source copied from irrespective of changes made in sentences like synonyms of words, change of tense and voice of speech etc.
7.	PATENT ANALYZER 1.0	S/W-3993/2009	It analyzes the patent documents published in the patent journal and gives the top ten countries name and also the number of filed patents in India. It also gives the maximum number of patent filed in India in a particular field by top ten countries.
8.	PATENT VULTURE 1.0	51W-4014/2009	This is a unique type of software tool which is able to find the immoral patents from the Indian Patent Journals, published on every Friday in each week.
9.	QUICK PPT 1.0	S/W-4066/2009	It generates ppt after selecting the text from pdf or word file. It can manage the text accordingly and user can select the text as heading or running text.
10.	SIFRADMIX TURE 1.0	S/W-4067/2009	After analyzing of the ICT patents published in Indian Patent Journal it shows the suspicious patents on the basis of being admixture/ conglomeration and thus which are obvious.
11.	SOFTALG01.0	S/W-4068/2009	After analyzing of the ICT patents published in Indian Patent Journal it shows the suspicious patents on the basis of being pure algorithm patent which is not patentable in India.
12.	WISCOM Ver. 1.0	SW-4859/2011	Computer Software
13.	Pairwise Comparison of Protein Sequence using its Sequence and Physicochemical Properties	14232/2019-CO/SW	Pairwise Comparison of Protein Sequence using its Sequence and Physicochemical Properties
14.	OnlineproctorE	9847/2022-CO/SW	Computer Software
15.	MAPPERS	7618/2022-CO/L	Literary/ Dramatic
16.	EMPLOYEECATCHER	17619/2022-CO/L	Literary/ Dramatic

Projects

Sr. No.	Name of Project	Principal Investigator/ Co-PI	Funding Agency	Project Cost	Amount Released	Expenditure	Period of Project
1	Disaster management system for large scale deployment of sensor network using a fault tolderant mechanism	Dr. Shirshu Verma	DST	1,58,47,800	73,08,000	79,01,117	2011-15
2	Distributing Industrial Optimization tasks to Rural Worker- INDO UK BURD Project	Prof. Anupam Agrawal	DST	60,88,130	42,55,024	45,01,978	2012-17
New Project 2015-16							
3	IIITA Design Innovation Center	PI: Dr. Suneel Yadav Co-PI: Dr. Nitesh Purohit, Dr. Sunny Sharma, Dr. Vibhash Ghoshal, Dr. Rishi Ranjan Singh, Dr. Amit Kr. Dhar	MHRD	59,37,004	69,37,004	65,99,723	2015-19
New Project 2016-17							
4	Global initiative on academic network	Dr. Satish Kumar Singh	MHRD	59,84,000	59,84,000	60,81,350	2015-18
5	Mission Planning using Sampling based techniques	Dr. Rahul kala	SERB	3928766	3187713	3674976	2016-19
New Project 2017-18							
6	IMPRINT India initiative	Dr. Bibhas Ghoshal	MHRD (IIT Kanpur)	1290000	2023200	1830255	2017-22
New Project 2018-19							
7	Near Horizon Structure of Black Holes	Dr. Srijit Bhattacharjee	SERB	1977248	1741949	1677649	2018-21
8	Cyber Physical Security in Energy Infrastructure of Smart Cities (CPSEC) Indo-Norway Collaboration Project under ICT - CPSEC	Prof. O. P. Vyas	DST	3575500	1769835	2514494	2018-21
9	Newgen Innovation & Entrepreneurship Development Centre	Dr. Ranjana Vyas	DST	9500000	16750000	8027392	2018-23
10	Real Time Complex Processing and Analytics for Smart Buildings	Dr. Sonali Agarwal	DST	23,37,720	21,84,200	16,07,202	2018-21

11	Design and Development of Dimensionality Reduction Technigues for Cyber Physical Systems	Prof. Shekhar Verma	DST	3128400	2559200	2639316	2018-21
12	Transdifferention of mesenchymal stem cells into functional neurons on biodegradable nanomaterial scaffolds	Dr. Sangeeta Singh	SERB	3816000	3550000	3719861	2018-21
13	Scheduling of Precedence tasks with DVFS and Duplication on heterogeneous multiprocessors	Dr. Jagpreet Singh	SERB	1798090	1554760	1344431	2018-22
New Project 2019-20							
14	Development of Secure IoT Communication using the Blockchain Technology (DST/ICPS/Cluster/CS Research/2018 (General)	Dr. Venkatesan	DST	3630000	2627927	1540950	2019-22
15	Low Power-High Speed True Random Number Generator for Cryptographic and Security Applications Under Cyber Security (CS) Research of Interdisciplinary Cyber Physical Systems (ICPS) Programme	Dr. Manish Goswami	DST	67,76,000	4600000	1421058	2019-22
16	Modeling And Simulation of Environmental and Occupational Epidemiology Data In Indian Context An Ontology Based Data Mining Approach	Dr. Sonali Agarwal	CSIR	2636000	1045000	407178	2019-23
17	Popularizing the benefits of Information and Communication Technology (ICT) among the farmers and rural population in Prayagraj, UP	Dr. Vijay Kr. Chaurasiya	DST	1190750	950000	1033660	2019-2021
18	GenomeIndia: Cataloguing the Genetic Variation in Indians	Dr. Pritish Varadwaj	DBT	14000000	9300000	10336711	2019-2022
New Project 2020-21							
19	A web browser based	Prof. P.	BPR&D	38,30,400	2681240	2048868	2020-22

	Intelligent kernel tool for automatic detection and blocking of obscene image and video contents in real time by IIIT Allahabad	Nagabhushan / Dr. Satish Kr. Singh / Dr. Mohammed Javed					
20	Development of Application Oriented AI Systems	Prof. U.S. Tiwary/ Dr. Bibhash Ghosal/Dr. Jagpreet Singh	MeitY	3982000	1994000	1526509	2020-23
21	Improving Access to Science and Technology Higher Education in Resource-Poor Institutions through an Open Platform for Technology Enabled Active Learning Environment	Dr. Sonali Agarwal	University of Peradeniya, Galaha, Sri Lanka	EURO 72,724	3078362		2020-23
22	Development of kit for simultaneous isolation of viral RNA by magnetic nanoprobe and rapid detection of novel coronavirus by highly luminescent gold nanoclusters	Dr. Amaresh Kumar Sahoo	DBT	1401520	1146057	1146057	2020-21
23	Development of fuzzy logic based automated micro-irrigation system powered by phyllotaxy pattern solar tree for agricultural and horticultural crops	Dr. Ashutosh Kumar Singh	U.P. Council of Agricultural Research, Gomti Nagar, Lucknow	2073500	4,77,750	2,63,519	2020-21
24	Ab-initio linear and non-linear ultrafast spectroscopy in twdimensional nitrogen based binary bucked group V semiconductors	Dr. Sitangshu Bhattacharya	DST	3525903	836226	570813	2020-23
25	Detection and quantification of multiple blood parameters with photoacoustics: Fundamental research and portable device development for onsite sample Analysis	Dr. Ratan Kumar Saha	ICMR	2105898	1310320	812359	2020-23
26	Social Awareness for COVID-19 through AI based Mobile App (TPN/52915)	Dr. Vrijendra Singh	DST	1576800	1260000		2020-22

New Project 2021-22							
27	Inspire Program- Inspire Fellowship	Dr. Pramod Kumar (Ms. Vidushi Gautam)	DST	451520	451520	432837	2020-25
28	IOT Based Testbed	Dr. S. Venkatesan, Dr. Soumyadev Maity, Dr. Vijay Kr. Chaurasiya, Prof. Neetesh Purohit, Dr. Suneel Yadav, Dr. Manish Kumar	IIT Kanpur (DST)	2,74,25,000	24,50,000	1674234	2021-26
29	Social media, Outreach and Awareness Activities on Novel Method of Targeted Drug Delivery: Reducing Doses and Enhancing of Therapeutic Drug	Dr. Sangeeta Singh	DST	2185920	1171360	608888	2021-23
30	Design of efficient descriptors for biomedical image retrieval in computer assisted diagnosis	Dr. Satish Kumar Singh	DST	1082000	541000	146910	2021-23
31	Intelligent Grasp Manipulation Technology Development in a Cobotics Framework Using Complex Manipulation (Human Robot Interaction	Prof. G. C. Nandi	IIT Delhi	10000000	6589946	4597635	2021-24
32	Study of weakly coupled Partially Observable Markov Decision Processes, and Reinforcement Learning Algorithms	Dr. Rahul Harishchandra Meshram	SERB	21,73,317	8,22,800	146933	2021-24
33	Reliable and privacy Preserving Data Auditing for FOG-assisted Cyber Physical System (FOG-CPS)	Dr. Soumyadev Maity	IHub NTIHAC Foundation, C3iHub IIT Kanpur	22,40,240	1121520	1005420	2021-24
34	Development of deep learning-based hashing techniques for image retrieval – Indo-Taiwan	Dr. Shiv Ram Dubey	DST	2828580	359462	308348	2019-22
35	To create a state-of-art facility for big data analytics of large-scale genomics and proteomics	Prof. Pritish Varadwaj (Principal Investigator) and Dr. B. S. Sanjeev,	DBT	69,30,000	1000000	1255161	2021-26

	data - BIC	Dr. Amaresh Kr. Sahoo, Prof. Krishna Misra, Prof. Tapobrata Lahiri, Dr. Sintu Kr. Samanta (CO-PI)					
36	Development of novel and cost-effective layered perovskite oxide ceramics for wireless communication applications	Dr. Upendra Kumar	SERB	50,43,764	3519000	2499148	2021-24
37	FIST Program of DST	Dr. Pooja Mishra	DST	1,17,00000	9900000		2021-26
38	Risk Averse Resilience Framework for Critical Infrastructure Security	Prof. O.P.Vyas	IHub NTIHAC Foundation, C3iHub IIT Kanpur	3668000	1428000	482602	2021-24
39	Strain-driven phonon-assisted tuning of excitonic lifetime in two-dimensional optoelectronic semiconductors	Dr. Sitangshu Bhattacharya	SERB	660000	220000	0	2021-24
New Project 2022-23							
40	Science Technology and Innovation Hub in Information and Communication Technology (ICT)	Prof. Neetesh Purohit	DST	1,86,66,933	13597093	7692151	2021-24
41	Social Media Presence and Information and Communication Technology (ICT) Adoption Status for Improving Competitiveness in MSME Sector: A study of U. P.	Dr. Shailendra Kumar, PI Dr. Utkarsh Goel, Prof. Vijaishri Tiwari, Co-PI	ICSSR, MoE	400000	160000	138675	2022-23
42	Optimal Clustering using Hybrid Techniques in Wireless Sensor Networks (ID 1196)	Dr. Rajat Kumar Singh	CST UP	1044000	340000	58065	2022-25
43	Spintronic Devices based on hybrid materials (ID 489)	Dr. Pramod Kumar	CST UP	600000	250000	0	2022-25
44	Design and Implementation of Biocompatible Energy	Dr. Sunny	SERB	5499307	3855370	0	2022-25

	Harvesting Device for Low Frequency Operation						
45	Characterization of Some Classes of Projections in Operator Spaces	Dr. Abdullah Bin Abubaker	SERB	660000	220000	0	2022-25
46	A study of black hole horizons with (semi) analytic approaches	Dr. Srijit Bhattacharjee	SERB	660000	220000	0	2022-25
47	Design and Development of Computer-Aided Diagnostic Software to Localize and Grade Eye Diseases using Deep Learning and Transformer Approaches	Dr. Anjali Gautam	SERB	2304544	986000	0	2022-25
48	Strain-driven phonon-assisted tuning of excitonic lifetime in two-dimensional optoelectronic semiconductors	Dr. Sitangshu Bhattacharya	SERB	660000	220000	0	2022-25
49	Spin induced properties of p-block elements-based Van-der Waals heterostructures for prospective spintronics applications: An ab-initio approach	Dr. Sanjai Singh	SERB	1903264	687600	0	2022-25
50	Development of Multi-UAV Enabled Wireless Powered Collaborative Mobile Edge Computing System for Time-Sensitive IoT Applications	Dr. Nabajyoti Mazumdar	SERB	2733759	1389000	0	2022-25
51	NiPDD: Designing an Artificial Intelligence based CMOS Sensor system for Non-Invasive Detection of Parkinson's disease	Dr. Pritish Kumar Varadwaj	ICMR	2492743	2492743	0	2022-25
52	Thermo-Visible Deep Multimodel Ocular Biometric Recognition and Facial Thermal Profiling in COVID-19 Reality	Dr. Satish Kumar Singh	DST	1350240	450080	0	2022-25
53	Development of photoacoustic spectrum analysis protocol for	Dr. Ratan Kumar Saha, PI Dr. Amaresh	DBT	1848040	646520	0	2022-25

	morphological characterization of single cells - [BT/PR44547/MED/ 32/791/2021]	Kumar Sahoo, Co-PI					
54	Analytical Investigation on the Sum of Random Vectors and Application to Intelligent Reflecting Surfaces Aided Wireless Communications	Dr. Suneel Yadav	SERB	660000	220000	154800	2022-26
55	Automated Lunar Crater Detection Using Payloads from Chandrayaan-2 Mission	Dr. Himanshu Maurya	Department of Space	2173520	688960	0	2022-27

8

Finance & Accounts

Finance & Accounts (Financial Year 2022-23)

CAPITAL (OH: 35):-

The MoE, GoI released Grant-in-aid Creation of Capital Assets **[OH: 35]** of **Rs. 4,00,00,000/-** during the **Financial Year 2022-23** to the Institute. The details are given below:

Grant received during the year **2022-23 [OH: 35]**		
Sanction No. **(i)**	**Date** **(ii)**	**Amount** **(iii)**
F.No. 55-3/2022-TS.1 -- **GEN 35**	29.04.22	40,00,000/-
F.No. 55-3/2022-TS.1 -- **SC 35**	29.04.22	7,00,000/-
F.No. 55-3/2022-TS.1 -- **ST 35**	29.04.22	3,00,000/-
	Total amount (A)	**50,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 35**	11.05.22	44,28,000/-
F.No. 55-3/2022-TS.1 -- **SC 35**	11.05.22	3,81,000/-
F.No. 55-3/2022-TS.1 -- **ST 35**	11.05.22	1,91,000/-
	Total amount (B)	**50,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 35**	22.07.22	88,56,000/-
F.No. 55-3/2022-TS.1 -- **SC 35**	22.07.22	7,62,000/-
F.No. 55-3/2022-TS.1 -- **ST 35**	22.07.22	3,82,000/-
	Total amount (C)	**1,00,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 35**	14.11.22	1,37,000/-
F.No. 55-3/2022-TS.1 -- **SC 35**	14.11.22	9,00,000/-
F.No. 55-3/2022-TS.1 -- **ST 35**	14.11.22	4,00,000/-
	Total amount (D)	**1,50,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 35**	09.02.23	39,04,500/-
F.No. 55-3/2022-TS.1 -- **SC 35**	09.02.23	6,09,250/-
F.No. 55-3/2022-TS.1 -- **ST 35**	09.02.23	4,86,250/-
	Total amount (E)	**50,00,000/-**
	Total grant received [A to E]	**4,00,00,000/-**

Against total available funds during the **Financial year 2022-23** of **Rs. 8,28,69,111/- [Opening balance: Rs. 4,28,69,111/- + Grant received: Rs. 4,00,00,000/-],** a sum of **Rs. 5,56,19,136/-** was utilized for the purpose for which the Grant was sanctioned leaving **closing balance** under Capital Head **[OH: 35]** of **Rs. 2,72,49,975/-** as on **31.03.2023**.

Creation of Assets [OH: 35]:- Electrical installation and equipment, Plant & Machinery, Scientific & Laboratory equipment, Office equipment, Audio Visual equipment, Computers & Peripherals, Furniture, Fixtures & Fittings, Library Books & Scientific Journals, Sports & Equipments, Computer Software, E-journals etc.

Salary [OH: 36]:-

The MoE, GoI released Grant-in-aid Salary **[OH: 36]** of **Rs. 35,23,00,000/-** during the **Financial year 2022-23** to the Institute as per details given below:

Grant received during the year **2022-23 [OH: 36]**		
Sanction No. **(i)**	**Date** **(ii)**	**Amount** **(iii)**
F.No. 55-3/2022-TS.1 -- **GEN 36**	29.04.22	2,90,00,000/-
F.No. 55-3/2022-TS.1 -- **SC 36**	29.04.22	40,00,000/-
F.No. 55-3/2022-TS.1 – **ST 36**	29.04.22	20,00,000/-
	Total amount (A)	**3,50,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 36**	11.05.22	3,10,01,000/-
F.No. 55-3/2022-TS.1 -- **SC 36**	11.05.22	26,68,000/-
F.No. 55-3/2022-TS.1 – **ST 36**	11.05.22	13,31,000/-
	Total amount (B)	**3,50,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 36**	06.06.22	2,65,72,000/-
F.No. 55-3/2022-TS.1 -- **SC 36**	06.06.22	22,87,000/-
F.No. 55-3/2022-TS.1 – **ST 36**	06.06.22	11,41,000/-
	Total amount (C)	**3,00,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 36**	22.07.22	1,77,15,000/-
F.No. 55-3/2022-TS.1 -- **SC 36**	22.07.22	15,25,000/-
F.No. 55-3/2022-TS.1 – **ST 36**	22.07.22	7,60,000/-
	Total amount (D)	**2,00,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 36**	10.08.22	1,77,00,000/-
F.No. 55-3/2022-TS.1 -- **SC 36**	10.08.22	15,00,000/-
F.No. 55-3/2022-TS.1 – **ST 36**	10.08.22	8,00,000/-
	Total amount (E)	**2,00,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 36**	08.09.22	1,77,00,000/-
F.No. 55-3/2022-TS.1 -- **SC 36**	08.09.22	15,00,000/-
F.No. 55-3/2022-TS.1 – **ST 36**	08.09.22	8,00,000/-
	Total amount (F)	**2,00,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 36**	07.10.22	35,00,000/-
F.No. 55-3/2022-TS.1 -- **SC 36**	07.10.22	3,00,000/-
F.No. 55-3/2022-TS.1 – **ST 36**	07.10.22	1,00,000/-
	Total amount (G)	**39,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 36**	14.11.22	5,06,00,000/-
F.No. 55-3/2022-TS.1 -- **SC 36**	14.11.22	34,00,000/-
F.No. 55-3/2022-TS.1 – **ST 36**	14.11.22	16,00,000/-
	Total amount (H)	**5.56,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 36**	08.12.22	2,46,00,000/-
F.No. 55-3/2022-TS.1 -- **SC 36**	08.12.22	21,00,000/-
F.No. 55-3/2022-TS.1 – **ST 36**	08.12.22	11,00,000/-
	Total amount (I)	**2,78,00,000/-**

F.No. 55-3/2022-TS.1 -- **GEN 36**	09.02.23	6,20,00,000/-
F.No. 55-3/2022-TS.1 -- **SC 36**	09.02.23	54,00,000/-
F.No. 55-3/2022-TS.1 – **ST 36**	09.02.23	26,00,000/-
	Total amount (J)	**7,00,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 36**	14.03.23	3,13,53,000/-
F.No. 55-3/2022-TS.1 -- **SC 36**	14.03.23	22,03,000/-
F.No. 55-3/2022-TS.1 – **ST 36**	14.03.23	14,44,000/-
	Total amount (K)	**3,50,00,000/-**
	Total grant received [A to K]	**35,23,00,000/-**

Against total available funds during the **Financial year 2022-23** of **Rs. 36,78,75,232/- [Opening balance: Rs. 1,55,75,232/- + Grant received: Rs. 35,23,00,000/-],** a sum of **Rs. 30,99,30,998/-** was utilized for Salary & Other Components leaving **closing balance** under Salary Head **[OH: 36]** of **Rs. 5,79,44,234/-** as on **31.03.2023**.

Salary & Other Components [OH: 36]:- Salary, Allowances, Medical Facility, LTC Facility, Leave Encashment, Children Education Allowance, CPDA and Retirement Benefits etc.

General [OH: 31]:-

The MoE, GoI released Grant-in-aid General **[OH: 31]** of **Rs. 33,76,00,000/-** during the **Financial year 2022-23** to the Institute as per details given below:

Grant received during the year **2022-23 [OH: 31]**		
Sanction No. (i)	**Date (ii)**	**Amount (iii)**
F.No. 55-3/2022-TS.1 -- **GEN 31**	29.04.22	2,50,00,000/-
F.No. 55-3/2022-TS.1 -- **SC 31**	29.04.22	35,00,000/-
F.No. 55-3/2022-TS.1 – **ST 31**	29.04.22	15,00,000/-
	Total amount (A)	**3,00,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 31**	11.05.22	2,65,76,000/-
F.No. 55-3/2022-TS.1 -- **SC 31**	11.05.22	22,83,000/-
F.No. 55-3/2022-TS.1 – **ST 31**	11.05.22	11,41,000/-
	Total amount (B)	**3,00,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 31**	06.06.22	1,77,17,000/-
F.No. 55-3/2022-TS.1 -- **SC 31**	06.06.22	15,22,000/-
F.No. 55-3/2022-TS.1 – **ST 31**	06.06.22	7,61,000/-
	Total amount (C)	**2,00,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 31**	22.07.22	2,65,76,000/-
F.No. 55-3/2022-TS.1 -- **SC 31**	22.07.22	22,83,000/-
F.No. 55-3/2022-TS.1 – **ST 31**	22.07.22	11,41,000/-
	Total amount (D)	**3,00,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 31**	10.08.22	2,66,00,000/-
F.No. 55-3/2022-TS.1 -- **SC 31**	10.08.22	23,00,000/-
F.No. 55-3/2022-TS.1 – **ST 31**	10.08.22	11,00,000/-

	Total amount (E)	**3,00,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 31**	08.09.22	1,77,00,000/-
F.No. 55-3/2022-TS.1 -- **SC 31**	08.09.22	15,00,000/-
F.No. 55-3/2022-TS.1 – **ST 31**	08.09.22	8,00,000/-
	Total amount (F)	**2,00,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 31**	07.10.22	1,11,00,000/-
F.No. 55-3/2022-TS.1 -- **SC 31**	07.10.22	9,00,000/-
F.No. 55-3/2022-TS.1 – **ST 31**	07.10.22	6,00,000/-
	Total amount (G)	**1,26,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 31**	14.11.22	4,55,00,000/-
F.No. 55-3/2022-TS.1 -- **SC 31**	14.11.22	30,00,000/-
F.No. 55-3/2022-TS.1 – **ST 31**	14.11.22	15,00,000/-
	Total amount (H)	**5,00,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 31**	08.12.22	1,77,00,000/-
F.No. 55-3/2022-TS.1 -- **SC 31**	08.12.22	15,00,000/-
F.No. 55-3/2022-TS.1 – **ST 31**	08.12.22	8,00,000/-
	Total amount (I)	**2,00,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 31**	09.02.23	5,75,00,000/-
F.No. 55-3/2022-TS.1 -- **SC 31**	09.02.23	50,00,000/-
F.No. 55-3/2022-TS.1 – **ST 31**	09.02.23	25,00,000/-
	Total amount (J)	**6,50,00,000/-**
F.No. 55-3/2022-TS.1 -- **GEN 31**	14.03.23	2,68,56,000/-
F.No. 55-3/2022-TS.1 -- **SC 31**	14.03.23	20,29,000/-
F.No. 55-3/2022-TS.1 – **ST 31**	14.03.23	11,15,000/-
	Total amount (K)	**3,00,00,000/-**
	Total grant received [A to K]	**33,76,00,000/-**

Against total available funds during the **Financial year 2022-23** of **Rs. 33,76,00,000/- [Opening balance: Rs. NIL + Grant received: Rs. 33,76,00,000/-],** a sum of **Rs. 35,87,31,412/-** was utilized for Recurring expenditure leaving **closing balance** under General Head **[OH: 31]** of **Rs. NIL** as on **31.03.2023**. **Excess expenditure of Rs. 2,11,31,412/- over and above released Grant-in-aid General [OH: 31] was met out from internal resources of the Institute. Internal Resources includes Academic Receipts, Other income viz. Income from Land & Building, Income from Consultancy, Institutional charges, Penalty recovered from the Vendors / Contractors and other misc. receipts etc.**

Recurring expenditure [OH: 31]:- Laboratory expenses, Seminar / Workshop expenses, Convocation expenses, Stipend expenses [M. Tech & Ph. D], Electricity charges, Diesel expenses, Postage & Stationery, Telephone & Internet charges, Printing & Stationery, Travelling expenses, Advertisement & Publicity, Audit Fees, Professional charges, Watch & Ward / House Keeping, Legal charges, Transportation expenses, Repair & Maintenance expenses on Building, Furniture & Fixtures, Plant & Machinery, Office Equipment, Computers, Lab equipment, Cleaning Material & Services, Gardening, Electrical items] and other misc. contingent expenses etc.

9

MoUs & Ranking

The Memorandum of Understanding (MoU)

IIIT Allahabad is global institute and therefore excellence of the institute is derived from the best that it can capture from the leading institutes in the world. This is the best facilitated by signing strategized MoUs with every aspect of teaching or research associated with the institute. The institute emphasises to function as an institute at a global level to solve the most challenging problems through research and to supply highest manpower who in turn join different organizations to solve challenging world problems. The institute believes in wide networking and outreach to get the best resources for mutual benefit.

Details of MoUs are:

- MoU between IIITA and National Yang Ming Chiao Tung University, Tiawan
- MoU between IIITA and FTP UNIVERSITY, VIETNAM
- MoU between IIITA and IIIT Kanchaepuram
- MoU between IIITA and MNNIT Allahabad, NIT Patna, NIT Durgapur and IIT, Patna
- MoU between IIITA and IIIT Kurnool

Ranking

IIIT Allahabad has been featuring regularly in rankings of institutes and universities across India and the world, compiled by various agencies. These rankings are done based on various criteria such as research outputs including publications, citations and patents, placement of students, quality of faculty members, international collaborations and so on. Some of the recent rankings are as follows:

NIRF (Engineering)						
Year	2018	2019	2020	2021	2022	2023
Rank	90	82	103	87	93	89
QS World University Ranking (QS WUR)						
Year	2018	2019	2020	2021	2022	2023
Rank	-	-	1001+	-	1001-1200	-
QS Asian University Rankings						
Year	2018	2019	2020	2021	2022	2023
Rank	226+	301-350	351-400	451-500	451-500	551-600
QS WUR By Subject - Computer Science and Information Systems						
Year	2018	2019	2020	2021	2022	2023
Rank	N.A.	551-600	501-550	501-550	501-550	651-680
QS Asian University Rankings - Southern Asia						
Year	2018	2019	2020	2021	2022	2023
Rank	N.A.	N.A.	N.A.	N.A.	N.A.	145
India Today-MDRA (Top Engineering Colleges in India)						
Year	2018	2019	2020	2021	2022	2023
Rank	13	10	9	10	9	11

10

Alumni & International Relations

Alumni Cell

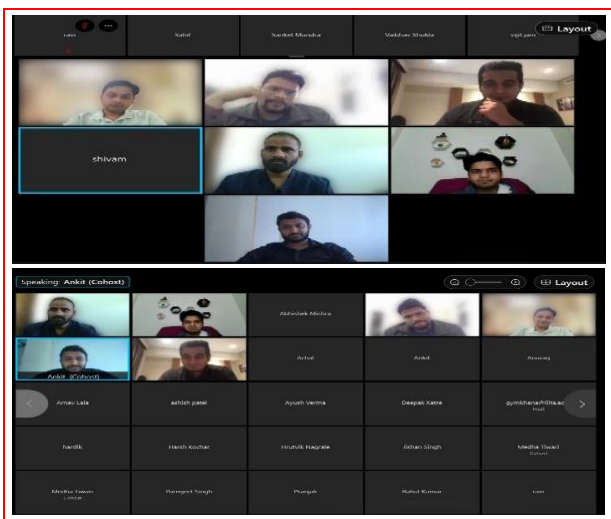
The Alumni Cell facilitate a platform to alumni and the current students by providing forums and creating opportunities for interactions among them. An online registration facility has been provided on the alumni website for all the ex-students to re-connect to the alumni family. Alumni can get registered on the website http://alumni.iiita.ac.in. Each member will be provided with a unique ID and password and can get information about his/her batch mates through this portal. One can also revise his/her information through this ID and password. The Alumni Cell under the office of Dean (AA) also wishes to apprise, from time to time, the alumni with the academic and other activities of the Institute.

In the process of bringing IIIT Allahabad on the world map, the role of Alumni is vital. The alumnies are the brand ambessodor of the institute.

The Office of Alumni Affairs IIITA has taken several initiatives and launched various programs recently to strengthen the Institute–alumni relationship, such as:

- ✓ IIITA Alumni Website Development and its Launch during the Alumni Meet in Bengaluru.
- ✓ Alumni Management System development to enable alumni to update their profiles online.
- ✓ The creation of an Alumni Database and the verification of basic alumni information from the AAA records; additionally, updating of the active alumni email addresses.
- ✓ Establishment of six alumni Chapters in India and abroad, each with its own Executive Committee of alumni to organize Chapter-level alumni activities.
- ✓ Establishment of an Alumni "Sangam" Council under the patronage of the Director IIITA, and chairmanship of the Dean Alumni Affairs to plan Institute and inter-Chapter level alumni activities.
- ✓ Launch of quarterly Alumni Newsletter and Start of Donation/ Give-back drive
- ✓ Creation of official social media handles.

The activities organized by the Alumni Affairs office during **April 2022 to March 2023** are as follows:



1st Mentorship Program for the Final Year Students of IIITA

Our "Sangam **Alumni** Council" took initiative and put efforts to bring the alumni and students community together, 7 of our alumni have interacted with final-year students in Online mode and given insights on various aspects of **placements** and entering into corporate life. We are thankful to each member of the panelists for putting in their efforts and making our community more connected.



Orientation Program for Newly Admitted BTech, MTech & MBA Students

The Alumni Affairs office proposed a **One-day** Virtual Workshop of IIITA Alumni Lecture-Cum-Interaction sessions with the newly admitted B.Tech, M.Tech, and MBA Students in the July 2021 session under the 2nd Orientation Camp on **Saturday 30th April'2022**. We had obtained the consent of six accomplished alumni of IIITA (different course streams) in India and abroad to share their experiences during their college life at IIITA, gave valuable advices to the freshers and answered their questions during interaction with the fresher students.

All six Alumni had 45 minutes of talk-cum-interaction session. IIITA faculty members took active participation in this Workshop Orientation camp and the ATTSC members were the coordinator of each session of the Camp.

For more information, please visit:

https://alumni.iiita.ac.in/workshoporientation-camp/



Alumni Students Mentorship (Placements) Webinar

The Alumni Affairs office organized the Alumni Mentorship Webinar (related to "Placements") with a request from the Coordinators of the Placement Cell for IIITA students as per the following details:

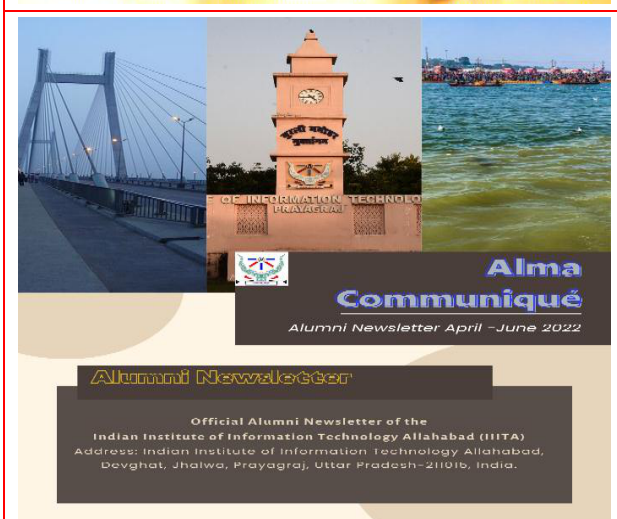
Date: 25-06-2022 (Saturday)

Time: 6:30 PM IST (approx. 1.5 hour)

The mentorship (Placement) program was well organized. Our ten esteemed alumni gave the right guidance for upcoming placements. The Banner is attached herewith. During the Webinar, Students and alumni directly interacted. This event was very useful for the students who were preparing for their upcoming placements.

For more information, please visit:

https://alumni.iiita.ac.in/mentorshipplacement/



Published Alumni Newsletter Vol-2

Alumni Affairs is Publishing its **Second Alumni Newsletter (April 2022 – June 2022)**. Through this Newsletter, all alumni of IIITA will be aware of various significant activities of the Institute including the Alumni Webinar/ talk series, Alumni-students Mentorship programs, Annual Alumni Meets, etc. Also, all students, alumni, faculty members, officers & staff members of IIITA will be aware of the accomplishments of our alumni and the support extended by IIITA alumni to their Alma mater.

For more information, please visit:

https://alumni.iiita.ac.in/wp-content/uploads/2022/07/Alumni-Newsletter-April-June-2022.pdf



Alumni Students Mentorship (Entrepreneurship) Webinar

The Alumni-Students Mentorship Program was conducted in the form of a Webinar by Alumni Affairs Office under the track "Venturing in Entrepreneurship". The details of the webinar were as follows:

Date: 06-08-2022 (Saturday)

Time: 6:30 PM IST (Approx 1.5 hour)

Our ten esteemed alumni gave the right guidance (related to starting their own companies) to students in this webinar and made this program a successful one.

For more information, please visit:

https://alumni.iiita.ac.in/mentorshipentrepreneurship/

IIITA Global Alumni Meet 2022 (GAM2022)















IIIT Allahabad hosted the **Annual "Global Alumni Meet 2022" (GAM2022)** in a Physical mode at the IIITA campus from **November 04th to 06th, 2022**. We invited our Alumni with their families. Approx. 105 Alumni and their families joined this event and make this event successful. Our Alumni from the initial batches from 1999, 2000, and 2001 were the special invitees

This Meet started **on** 4th November 2022 at 8:00 PM IST with a welcome dinner organized in the honor of Alumni and their families.

On 5th November, the session started at 9:45 AM IST with the Inaugural function. Hon'ble Chief Guest Dr. Anand Deshpande, Chairman BoG and Chief Patron, Prof. R.S. Verma, Director (Acting) IIITA, Prof. Anupam Agrawal, Dean of Alumni Affairs, and our Alumni Guest of Honor Dr. Siddharth (BTech ECE 2011 batch) & Varun Nair (BTech IT 2000 batch) addressed IIITA fraternities including Alumni, Faculty, Officers, Staff, Students, and Invitees. IIITA felicitated a special honor to alumni of the initial batches of 1999, 2000, and 2001 and they were honored with a shawl & Memento, and the Alumni of other batches were also felicitated with Memento. A "welcome" kit (having Skybag Back-pack, Milton thermosteel bottle, T-Shit, badge, Diary & pen) was gifted to all the registered alumni, dignitaries and members of different Committees.

In the evening, a Cultural Fest was organized in which many of our students, faculty, staff members and their families performed singing, dancing, musical instruments playing, drama, Kavi Sammelan, and other activities.

During the Alumni Meet, different types of games were installed near the playground towards the Recreational activities for the children of Alumni as well as faculty & staff members. A few Food stalls were also setup near the fun-area.

During the cultural program, there was also performance of a famous "Friendship Band" from Lucknow which

was enjoyed by all the IIITA fraternity members. It was followed by a grand Gala Dinner.

On 6th November, 2022, a special event titled "Industry-Academia Conclave" was organized to develop strong linkage of IIITA with different Industries headed by a few accomplished alumni of IIITA and also non-alumni representatives of reputed Industries such as Nvidia, Realvision, MergerXR Studio Ltd. (UK), i3 Simululations (UK), Celonis (USA) and IBM.

For more information, please visit:

https://alumnimeet.iiita.ac.in/

https://alumnimeet.iiita.ac.in/industry-academia/index.html



Webinar Series # 11

Speaker: Dr. Shitala Prasad, Assistant Professor, IIT Goa, (MTech IT HCI 2009 batch)

Date: **29th January' 2023 (Sunday)**
Time: 03:30 PM - 04:30 PM IST

Topic:"Computer Vision and HCI in Industrial Applications"

11

Facilities

Campus

The IIITA Jhalwa campus includes three Computer Centers with several labs each, lecture halls, auditorium, library, and a residential campus. This campus has been developed on 100 acres of land at Devghat, Jhalwa, on the outskirts of Prayagraj (Allahabad).

The architecture aims to transcend established design conventions and make a statement about the similarities between atoms and bits. Instead of the traditional geometric lines, the campus and other buildings have been styled on patterns developed by internationally acclaimed scholar and mathematician, Roger Penrose.

Penrose Geometry

This grid was chosen because the process of constructing a "Penrose Universe" has a remarkable congruence with the fundamentals of information theory. The basic units of information are aggregated in simple or complex sequences to provide a variety of "information structures" that span the entire range of human activity.

Sprawling on 100 acres lush green lawns and expanse of rich flora and devise floriculture, the Campus includes Visitors Guest House, Faculty Guest House, VIP Guest House, 05 Boys' Hostels with the occupancy of 1975 inmates, 03 Girls' Hostels, Residential Quarters of Type I, II, III & IV, Married Scholar Apartments, Students Activity Centre, Bank, Health and Shopping Complexes, Squash Courts, Tennis Courts, Badminton Courts, Basket Ball Court, Pavilion & Playgrounds, Swimming Pool etc.

Elements of the Campus

Within the Penrose layout for the campus, a central zone has been marked out for the academic core consisting of an administrative building, lecture theater complex, library, computer laboratories and research facilities. The sun pattern has been chosen for laying out the library and the lecture hall complex. The computer laboratories and the administrative buildings are derived from selected tessellated blocks in the star pattern. The lecture theater complex has pentagonal lecture halls seating 100+ students. Multimedia labs, tutorial rooms, faculty rooms, language labs and meeting rooms are also included. The basement of the building contains the air-conditioning plant and other service machinery. The building has three levels, with an area of approximately 3820 sq.m. The total covered area in the academic campus is approximately 15,600 sqm. Dholpur stone and rough cast plasters are the two main finishes chosen for the building exteriors.

This infrastructure is proposed to accommodate the needs of the institute for more than a decade. The students have access to a regular bus service from the Jhalwa campus to central Prayagraj city (Vigyan Prarishad). There are separate hostels for men and women, with single rooms (for the senior most batches) and twin sharing rooms. The spacious accommodations are provided with computers, along with 24-hour backup power supply. The hostel mess caters to the students' meals. Facilities for recreation and sports like cricket, football, badminton and table tennis are available with more on the way.

Salient Features in brief

- 24 X 7 Internet/Wi-Fi Connectivity throughout the campus.
- Normally each student allotted P4 and above computers.
- 24 X 7 uninterrupted power supply.
- State of the art facilities for all labs.

- All academic and administrative areas are fully air conditions.
- Different sport facilities like volleyball court, basketball court, football court, snooker, cricket ground, swimming pool, GYM facilities, etc are available for all the students.
- Banking & ATM facilities are available in the Institute premises.
- 24 X 7 Medical facilities are available in the campus.
- Hostel messes are fully air conditioned.
- Institute is having canteen providing hygienic foods / snacks.
- One of the salient features of the training imparted to the students is the hands-on computer assembly training. The students themselves have assembled almost all of the Institute's computers, under the guidance of specially trained technical staff. This has not only enabled the Institute in bringing down the cost of new computers, but also made almost 100% instant troubleshooting of any faults, resulting in no requirement of any computer related AMCs.
- Broadband over Power Line (BPL).

Sports

IIITAllahabad has an excellent physical activity infrastructure for its residents to ensure that academic development is duly supplemented by sufficient physical development as well. A good football ground – complete with spectator stands serves as the principal venue for most of the sports events organized by "Spirit" – the sports club of IIIT Allahabad. A duly marked athletic track circumscribing the ground serves to provide for a safe track for not only the athletic events – but the early morning joggers as well. Aquatic sports are catered to by a 25×12m swimming pool that is maintained to strict hygiene standards. The institute also provides flood lit basketball, tennis and squash courts to ensure that students have sufficient venues to engage in games of their choice. To further complement these venues, the air-conditioned Student Activity Center (SAC) also houses a table tennis facility along with a billiards room for those interested in indoor activities.

Sports Activities at IIITA for 2022-23:

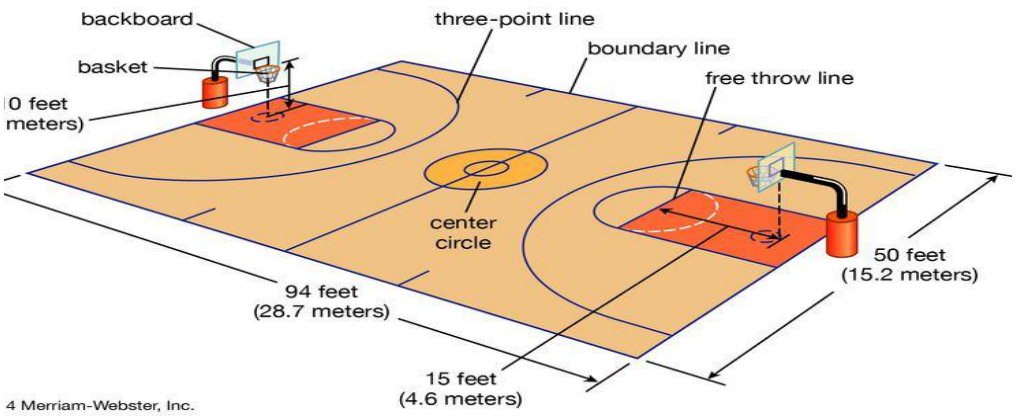
1) Annual sports meet (ASMITA) – Organized 16-18 Feb 2023.
2) Independence Day Marathon – Held on 15-Aug-2022 for Faculty, Staff, Students and Kids.
3) Activities under FIT India campaign – 2 Cricket Matches and 2 Badminton tournaments.
4) Inter year games for students.
5) Occasional sports matches with MNNIT and Shambhunath Institutes.
6) Participation in Sports meet of IIT Kanpur (1-3 April 2022).
7) Recreational sports activities for Alumni during GAM-2022.

Sports Facilities at IIITA:

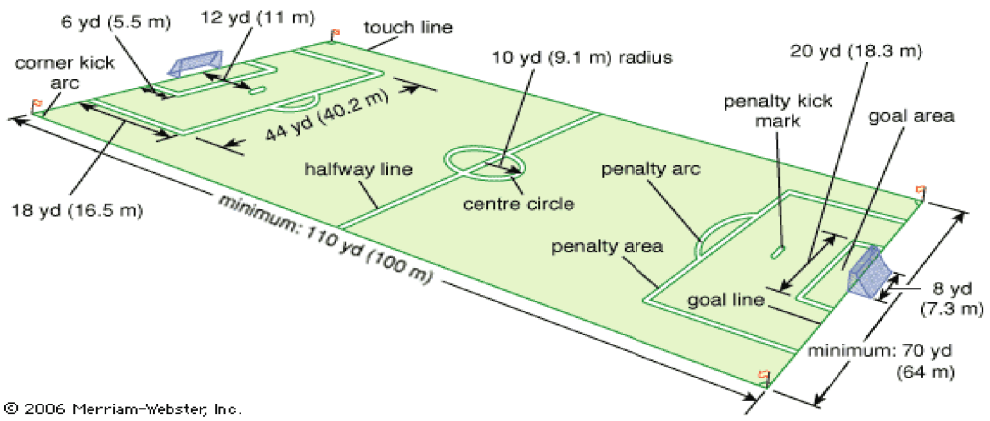
1) Aquatics (1 All-weather swimming pool of 25 meter with diving and water polo)
2) basketball (1 Court)
3) Football (1 Multipurpose Ground)
4) Cricket (1 Multipurpose Ground)
5) volleyball (2 total: Main Ground and BH.1)
6) Badminton (5 total: BH.5, BH.1, E. Block, Faculty area)
7) Squash (2 Courts)

8) Lawn tennis (1 Court)
9) T.T. (5 total: SAC, BH1, BH.5, GH.1, VH.1)
10) Snooker (1 in SAC)
11) Kho - Kho (1 Court)
12) Kabaddi (1 Court)
13) Carrom / Chess (5 in SAC)
14) Gyms (4 Total: VH.1, GH.1, BH.1, BH.5)
15) Athletic track (400 meter track)
16) Throw game (1 Multipurpose Ground)
17) Jump Events (1 Multipurpose Ground)
18) Tug of war (1 Multipurpose Ground)

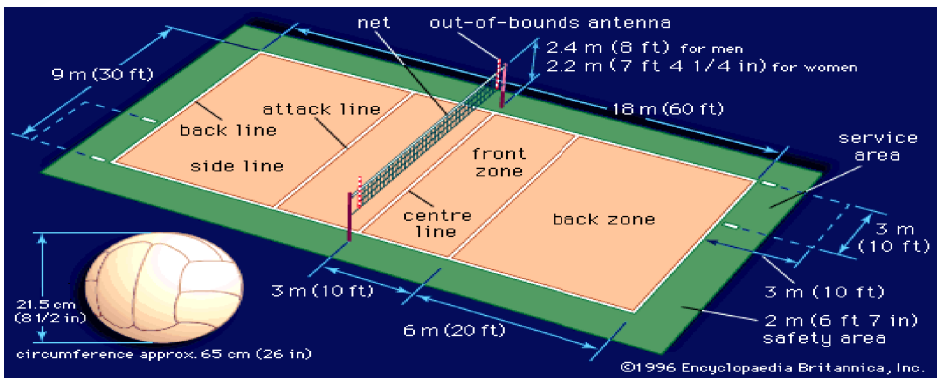
Brief Description of the Sports and Standard Sports Facilities Available at IIITA



Basketball, Court game between two teams of five players. They score by tossing, or "shooting," an inflated ball through a raised hoop, or "basket," located in their opponent's end of the court. A goal is worth two points, three if shot from outside a specified limit. A player who is fouled (through unwarranted physical contact) by another is awarded one to three free-throw attempts (depending on the circumstances of the foul). A successful free throw is worth one point.

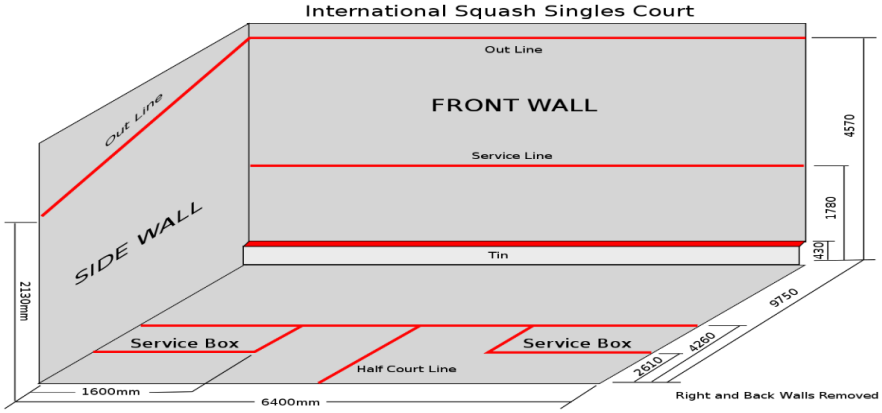


Football, or **association football** or **soccer**, Game in which two 11-member teams try to propel a ball into the opposing team's goal, using any part of the body except the hands and arms. Only the goalkeeper, when positioned within the penalty area in front of the goal, may use hands and arms. The game's first uniform set of rules was put in place in 1863, when England's Football Association was created. Professional leagues began appearing in the late 1880s, first in England and then in other countries. The Fédération International de Football Association (FIFA) was founded in 1904, and has hosted the World Cup every four years since 1930. Football has been included in the Olympic Games since 1908. Now played on all continents in over 200 countries, with over 250 million players, it is the world's most popular ball game.



Volleyball, Game played by two teams of six players each, in which an inflated ball is volleyed over a high net. Each team tries to make the ball touch the court within the opposing side's playing areas before it can be returned. A team is allowed to touch the ball three times before returning it. The team that first scores 15 points wins the game. Volleyball was invented in 1895 by William G. Morgan in Holyoke, Mass. It soon proved to have wide appeal for both sexes in schools, playgrounds, the armed forces, and other settings. International competition began in 1913, and volleyball became an Olympic sport in 1964.

Badminton The game of badminton originated in Siam, China over 2,000 years ago. It was brought to England in 1870 and was played somewhat like tennis. After being played in Canada, badminton arrived in America and has been popular since 1929. Since 1992, badminton has been an Olympic sport, with bird speeds reaching 100 m.p.h. Nature of the Game Badminton is played as a singles or doubles game with one or two players on a side. The object of the game is to hit the shuttlecock or "bird" back and forth with a racket across a net five feet high at its center. The bird should be hit with such speed and accuracy that the opponent is unable to return the shot successfully.



Squash is a racket-and-ball sport played by two or four players in a four-walled court with a small, hollow, rubber ball. The players alternate in striking the ball with their rackets onto the playable surfaces of the four walls of the court. The objective of the game is to hit the ball in such a way that the opponent is not able to play a valid return.



Tennis, original name **lawn tennis**, game in which two opposing players (singles) or pairs of players (doubles) use tautly strung rackets to hit a ball of specified size, weight, and bounce over a net on a rectangular court. Points are awarded to a player or team whenever the opponent fails to correctly return the ball within the prescribed dimensions of the court. Organized tennis is played according to rules sanctioned by the International Tennis Federation (ITF), the world governing body of the sport.

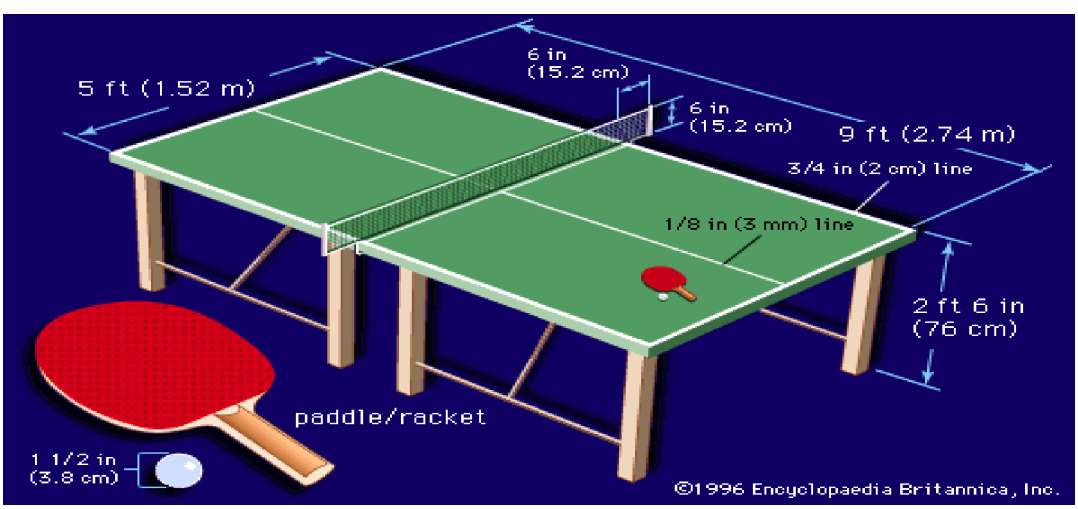
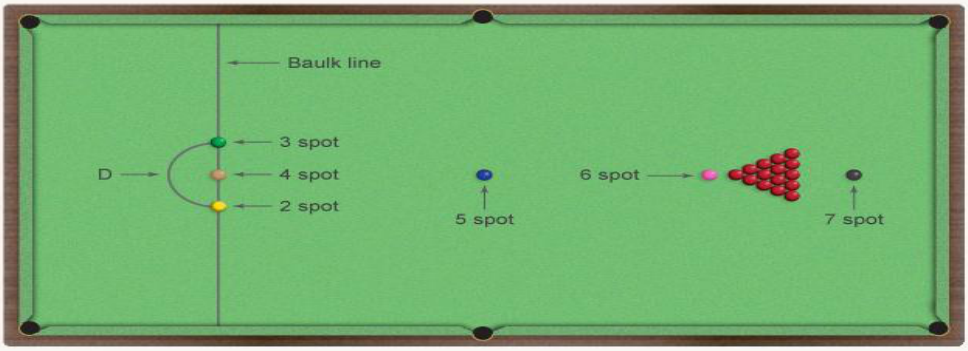
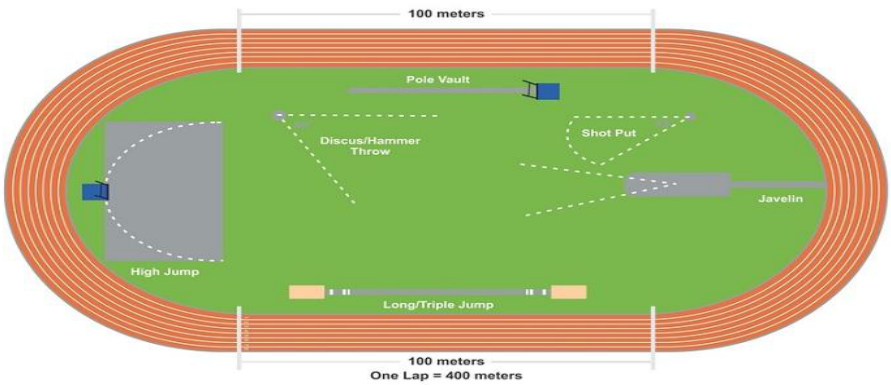


Table Tennis, Game similar to lawn tennis that is played on a tabletop with wooden paddles and a small, hollow, plastic ball. The object is to hit the ball so that it goes over the net and bounces on the opponent's half of the table in such a way as to defeat the opponent's attempt to reach and return it. Both singles and doubles games are played. A match consists of the best of any odd number of games, each game being won by the player or team who first reaches 11 points or who, after 10 points each, gains a two-point lead. Invented in England in the early 20th century, it soon spread throughout the world. Since the mid-1950s, East Asian countries have dominated the sport. It has been an Olympic sport for both men and women since 1988.

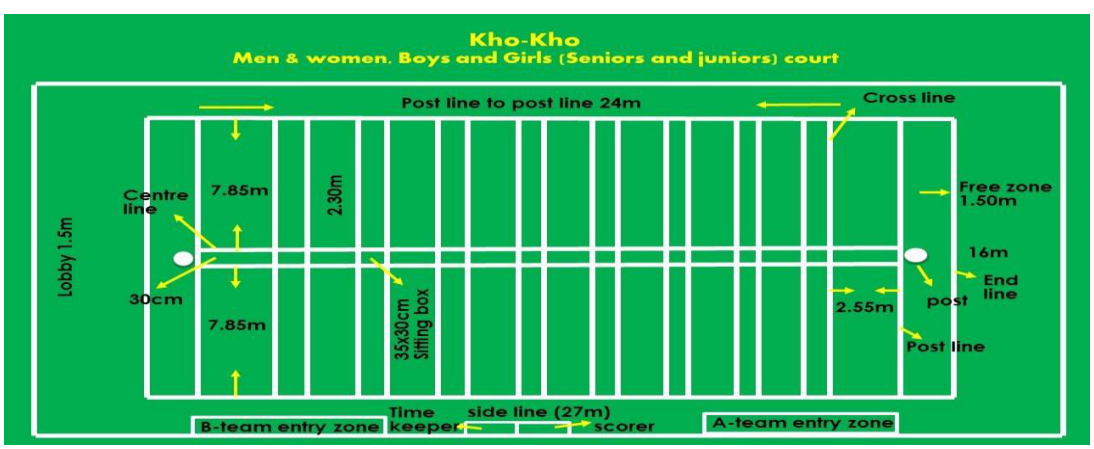


Snooker, popular billiards game of British origin, played on a table similar in size and markings to that used in English billiards. The game arose, presumably in India, as a game for soldiers in the 1870s. The game is played with 22 balls, made up of one white ball (the cue ball); 15 red balls, valued at 1 point each; one yellow, 2 points; one green, 3; one brown, 4; one blue, 5; one pink, 6; and one black, 7. Players try to pocket first the red and then the nonred balls, scoring one point for each red and the number value of the others.

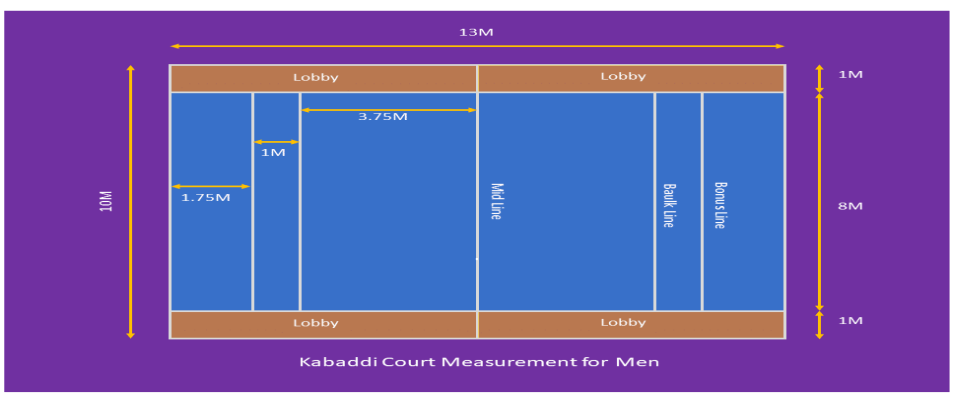


Athletics, also called track-and-field sports or track and field, a variety of competitions in running, walking, jumping, and throwing events.

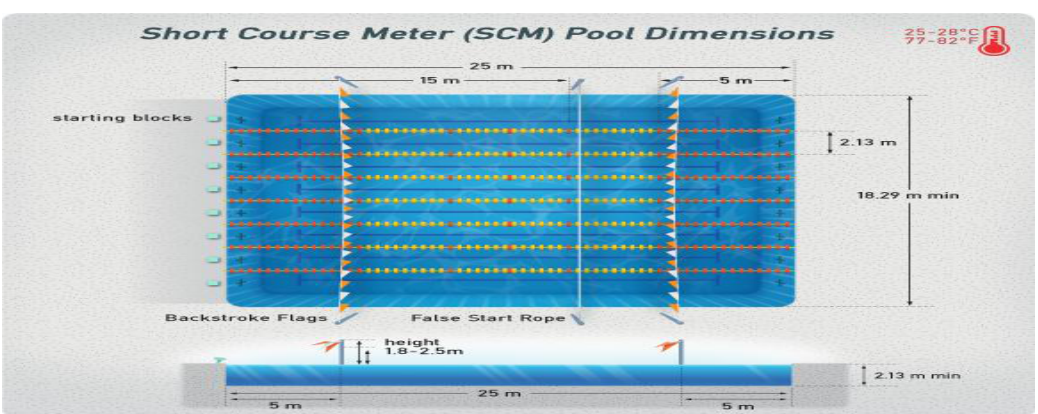
Track-and-field athletics are the oldest forms of organized sport, having developed out of the most basic human activities—running, walking, jumping, and throwing. Athletics have become the most truly international of sports, with nearly every country in the world engaging in some form of competition.



kho-kho, traditional Indian sport, a form of tag, that is one of the oldest forms of outdoor sport, dating back to prehistoric India. The *kho-kho* playing field—which can be placed on any suitable indoor or outdoor surface—is a rectangle 29 meters (32 yards) long and 16 meters (17 yards) wide with a vertical wooden post at either end of the field. Each *kho-kho* team consists of 12 players, but during a contest only 9 players from each team take the field. A match consists of two innings. In an innings, each team gets seven minutes for chasing and seven for defending. Eight members of the chasing team sit in eight squares in the central lane of the field, alternating in the direction they face. The ninth member is the active chaser (sometimes referred to as the attacker), who begins his pursuit at either of the posts. The active chaser "knocks out" an opponent by touching that person with the palm of the hand. The defenders (also called runners) try to play out the seven minutes, avoiding being touched by the chaser while not moving out of the field's boundaries. Runners enter the chase area (known as the rectangle) in batches of three. As the third runner leaves, the next batch of three must enter the rectangle. Runners are declared "out" when either they are touched by the active chaser, they drift out of the rectangle, or they enter the rectangle late. The active chaser can get any chasing-team member, sitting crouched in one of the squares in the center of the field, to take over and continue the chase by tapping him on the back with the palm and saying "*kho*" loudly. The chase is built up through a series of "*kho*s" as the chasers continue their pursuit in a relay manner.



Kabaddi is another game originated in India. It is spelled kabbadi or kabadi, game played between two teams on opposite halves of a field or court. Individual players take turns crossing onto the other team's side, repeating "kabaddi, kabaddi" (or an alternate chant); points are scored by tagging as many opponents as possible without being caught or taking a breath before returning to one's home territory. Indigenous to South Asia, kabaddi is also known as hu-tu-tu in western India, ha-do-do in eastern India and Bangladesh, chedu-gudu in southern India, gudu in Sri Lanka, and theechub in Thailand.



Swimming, In recreation and sports, the propulsion of the body through water by combined arm and leg motions. Swimming is popular as an all-around fitness routine and as a competitive sport. It has been included in the modern Olympic Games since their inception in 1896. Events include freestyle (crawl-stroke) races at distances of 50, 100, 200, 400, 800, and 1,500 m; backstroke, breaststroke, and butterfly races at 100 and 200 m; individual medley races at 200 and 400 m; freestyle relays, 4 × 100 m and 4 × 200 m; and the medley relay, 4 × 100 m. Long-distance swimming competitions, usually of 15–37 mi (24–59 km), are generally held on lakes and inland waters.

Health Facility

The health center of the institute is a 24x7 functional body that provides OPD care and first aid facilities for the residents where prompt treatment for ailments and small wounds can be availed. A multi-bed hospital meant for admitting students with greater illness is also maintained. Facilities like ECG and Pathology for basic routine tests on weekdays are also available and can be availed as per need. A well-equipped Physiotherapy Centre is also available for inmates.



The Medical Claim and Accidental Insurance Policy (MCAIP) ensure timely hospitalization and the best of treatments available for the students. An ambulance meant for transporting patients from institute to Nazareth Hospital and SRN Hospital in case of major illness or emergency is available round the clock. Homeopathic treatment is available on selected days. The students are required to reveal their medical history of any type and nature such as asthma, epilepsy, HTN, diabetes or any other chronic illness, during the time of admissions so that proper treatment and care can be provided to them during emergencies or otherwise. A team of well qualified doctors headed by CMO Dr. Kaushlesh Dwivedi, ensure the best of health care for the residential students.

Services

All kinds of required network services, like DNS, NIS, NFS servers, Windows Domain Controllers, Mailand Web servers are managed and maintained by the lab staff and students. Services for Intranet and Internet are separated by firewall. The web and mail services are also appropriately divided for external and internal use. Further, efforts are ongoing to enable the campus with Wi-Fi Networks.

Networking, Maintenance & High Computing Facilities

IIITA has established a reliable network of 10000+ nodes functional round the clock to cater the needs of more than 3000 users and approximately 7000+ networked devices including Desktop/Laptop/Mobile/MacBook etc. out of which approximately 4000+ nodes are operational round the clock. The internal design is powered by providing dedicated wired as well as shared wireless network to every node in the campus. The network spans through every building on the campus using optical cables where high quality equipment (including Load

Balancing, Firewall, WSA and Layer 3 managed switches) have been installed ensuring a high speed (Gigabit) intranet access 24X7. The internet is facilitated by a dedicated link from National Knowledge Network of 1Gbps bandwidth including a redundant link of 1 GBPS bandwidth from JIO to ensure connectivity in case of technical breakdown however both the Internet links are working simultaneously on Link Load Balancing Device to shape the High-speed Traffic. Centralized Server Room monitors all the network related activities and facilitates a secure network services within the campus. Network infrastructure of IIITA is sophisticated which uses cutting edge technologies like Nexus Backbone switch, Unified Threat Management systems, Adaptive Security Appliances etc. It is prominently upgraded with time to meet the needs of users. The Networking and Maintenance Cell provides hardware (such as Desktop computers, Laptops, Printers, Scanners), software and other technical services to the users. Under the supervision of NMHC Section various labs set up for UG and PG students. A major service offered to students includes- WWW, Mail, Proxy, Firewall, DNS, LDAP, Profile, Storage, WINS, Forums, and Database etc.

Software: The PC's use mainly Windows and Linux. The labs have a very rich repository of software ranging from integrated development environments for C/C++, Java, Visual Basic, to RDBMS like Oracle 9i, MySQL, MATLAB, Webex Microsoft Office. Several specialized software for core labs or projects like Statistical, Rational Rose, SPSS 10.0, Argo UML, Systat 12 and other licensed version software for testing purposes have also been acquired. ERP prototype packages are being acquired for facilitating the students with the latest enterprise applications.

Hardware: Computer laboratories and the administrative buildings are derived from selected tessellated blocks in the star pattern. All the labs are equipped with latest PCs having Quad Core, i5, i7 and 1 TB storage and 8/16 GB (RAM) with 24X7 internet connectivity through 2 GBPS Leased line. Scanners, CD/DVD writers, Laser printers are also provided in the Labs.

ISP And Network Devices Details: 1 GB Link from NKN (BSNL Media Provider) and another 1 GB link from Reliance, over Juniper MX-80 (NKN) and Juniper ACX 1100 Series (Reliance) Routers, Security Appliance: CISCO Wi-Fi Controller 5516, FPR 2100 Series, Fortinet 1000B (LLB), Core Switches: CISCO Nexus 7000 Series, CISCO Catalyst 4507 R+E, Cisco 3560, CISCO 2960, and Cisco 4000 catalyst, provide support in maintaining state of class network services for users.

Central Computing Facility (CCF): NMHC maintains a Central Computing Facility which consists of the HPC (SURYA), Big Data (DHYAN) and Cloud Facility. HPC has 16 CPU (640 Cores) compute node clusters and 4 GPU (160 cores with 2x4 Nvidia Tesla V100 having 40,960 CUDA core) node clusters along with 8.5 TB of RAM. The Big Data Facility (DHYAN) has 20 CPU (800 cores) data node clusters with 8TB of RAM and ~250 TB of HDFS Storage. HPC and Big Data Facility uses General Parallel Files System (GPFS) for storage (~450 TB) connected via Mellanox 56Gb/s Passive copper cables (15 GBPS throughput) based on DDN GRID Scaler storage. Cloud Facility has 6 cloud nodes (240 cores), 2.3TB of RAM with 150TB of storage. In addition, the CCF have, a) a 96 core DL580 server with Nvidia Tesla-M60 with 8GBx2, 30TB of storage and 512GB of RAM, b) a 12 core DL380 server with Nvidia Quadro M6000 with 24GBx2, 4TB of storage and 128GB RAM, and c) a 20-core server with 4 x Nvidia GeForce RTX 3090 Ti with 10000 CUDA cores, 2TB storage and 256 GB of RAM.

The CCF facility has 100 Gbps inter-connectivity, 10 Gbps external connectivity, 2x100 KVA UPS backup, and Precision air cooling solution with N+1 redundancy.

Hostels

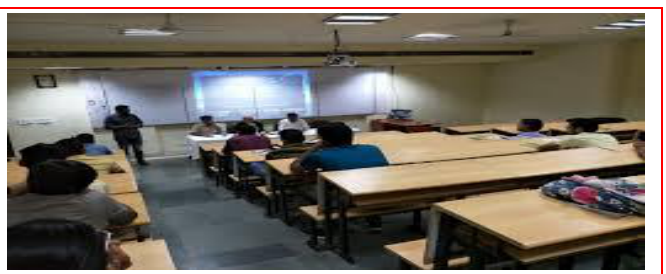
The Institute has state-of-the-art Hostel facilities for both Boys and Girl students with good ventilated rooms equipped with computers, fully air-conditioned modular Mess with electronic equipments and playing facilities.

Hostel	Rooms			Occupancy
	Single	Double	Total	
Girls Hostel – I	10	21	31	52
Girls Hostel – II	10	39	49	88
Girls Hostel – III	128	48	176	248 (Including 24 single suits)
Boys Hostel – I	108	78	186	264
Boys Hostel – II	108	78	186	264
Boys Hostel – III	108	78	186	264
Boys Hostel – IV	168	92	260	352
Boys Hostel – V	347	210	557	831 (Including 64 single suits)
Married Scholar Appartments			50	50
			Total	**2413**



Classrooms

- Computer Centre (CC-I) 05
- Computer Centre (CC-II) 05
- C.V. Raman Bhawan (CC-III) 12
- Lecture Theatre (LT) 10



Laboratories

- Computer Centre (CC-I) 16
- Computer Centre (CC-II) 16
- C.V. Raman Bhawan (CC-III) 30
- Lecture Theatre (LT) 05



Faculty Offices

• Computer Centre (CC-I)	22
• Computer Centre (CC-II)	22
• C.V. Raman Bhawan (CC-III)	54
• Lecture Theatre (LT)	10



Residential Facilities

Sl.	Type	Built Area	No. of Rooms
1	A	55 m^2	08
	B	85 m^2	16
	I	85 m^2	32
	C	100 m^2	02
	G	100 m^2	20
	D	120 m^2	28
	H	120 m^2	18
	J	148 m^2	20
	E	155 m^2	14
	F	200 m^2	05
2	**Visitors' Hostel I**		
	AC Room suites (Refrigerators, TV, computer facilities in six suits), all double beds)		10
	AC Rooms (TV, All Double beds)		20
	Non-Ac Rooms (Dining Hall, cyber cafe-3 computers, gym facilities)		10
	Visitors' Hostel II (For VIP/International Visitors mainly with all essential facilities)		
	Visitors' Hostel III (All double beds, refrigeration in 17 suites, TV & computer in all 30)		
	AC Suites		28
	AC Single		02

Other Amenities

- ➢ Auditorium
- ➢ Sports
  - Pavillion
  - Volleyball Court
  - Lawn Tennis Court
  - Athletic Track
  - Squash Court
  - Swimming Pool
  - Gymnasium
- ➢ Cafeteria
- ➢ Amul Parlour
- ➢ Nesley Parlour
- ➢ Health Centre
- ➢ Physiotherapy Centre
- ➢ Bank ATM Points
- ➢ Telephone Exchange
- ➢ Shops
- ➢ Dormitory
- ➢ Student Activity Cenre
- ➢ Director Residence & Camp Office
- ➢ HVAC & Associated work
- ➢ Internal Furnishing for academic buildings, hostels and auditorium
- ➢ Office Equipments
- ➢ Sewage Treatment Plant





Labs and Research Facilities

Computer laboratories and the administrative buildings are derived from selected tessellated blocks in the star pattern. A lot of emphasis is laid on research and learning via project work. This is exemplified by the numerous laboratories setup for research and projects pertaining to various emerging and contemporary fields like image Processing, Wireless Communication, Neural Networks, VLSI, Robotics and Bio-Informatics to name a few. They house softwares from widely used to be state-of-the-art technology. Laboratories that have been set up can be classified into two categories – general and specialized laboratories. Students have been provided independent systems in at least one general laboratory. Students can use laboratory facilities all round the clock. Laboratories open at their request, so students can conveniently work even when it is a public holiday. They can use these systems to install and run programs of their choice, carry out assignments and project works under course curriculum.

The computer labs comprise of latest PCs having Core 2 Duo, Quad Core, I5 with a 24 hours Internet access through 1 GBPS Leased line; Scanners, CD- writers, Laser printers are also available in the Labs. Multimedia projectors, Webcams, Video Cameras are extensively used for communication skills labs and various Presentations. Efforts are on to provide students with the latest Laptops. All computer points are backed by 100% Uninterrupted Power Supply.

Software: The PC's use mainly Windows XP and Linux. The labs have a very rich repository of software ranging from integrated development environments for C/C++, Java, Visual Basic, to RDBMS like Oracle 9i, MySQL. Several specialized software for core labs or projects like Statistica, Rational Rose, SPSS 10.0, Argo UML, Systat 12 and various software for Testing and Decision Purposes for Managers have been acquired with adequate user licenses. ERP prototype packages are being acquired for facilitating the students with the latest in enterprise applications.

The Institute maintains licensed copies of all software (systems, applications and academics) that students require and ensures that the licenses are kept up to date. It discourages the use of illegally procured software. Students have the prerogative to request the Institute to procure any software or hardware that they require in their assignments, projects or research activities.

Research Laboratories

Sl.	Name of the Lab	Faculty Incharge
1	Robotics Lab	Prof. G. C. Nandi, Dr. Rahul Kala
2	SILP/Cognitive Computing Center	Prof. U. S. Tiwary
3	Machine Learning and Optimization Lab	Prof. Shekher Verma/Dr. K. P. Singh

4	Interactive Technologies & Multimedia (ITM) Lab	Prof. Anupam Agarwal/Prof. Vrijendra Singh
5	Data Analytics Lab	Dr. Manish Kumar
6	Network Security & Cryptography Lab	Prof. Shekhar Verma/Dr. S. Venkatesan Dr. Vijay Kumar Chaurasiya/Dr.Soumyadev Maity
7	Wireless Sensor Network Lab	Dr. Manish Kumar/Dr. Nabajyoti Mazumdar
8	Robotic Fabrication & Control	Dr. Pavan Chakrabarty
9	Computer Vision and Biometric Lab	Dr. Satish Kumar Singh/Dr. Shiv Ram Dubey/Dr. Mohammed Javed/Dr. Navjot Singh/Dr. Anjali Gautam
10	System Lab	Dr. Bibhas Ghosal/Dr. Anshu Anand
11	Deep Learning Lab	Prof. Vrijendra Singh
12	Intelligent Signal Processing Lab	Prof. Vrijendra Singh
13	Advanced Image & Data Science Lab	Dr. T. Pant/ Prof. Vrijendra Singh
14	Software Engineering Research Lab	Dr. Sonali Agarwal/Prof. Vrijendra Singh
15	Big Data Analytic Lab	Dr. Sonali Agarwal
16	Digital Forensics and Cyber Security Lab	Dr. Abhishek Vaish/Dr. Shekher Verma/Dr. S. Venkateshan
17	Wireless Network and IoT Research Lab	Dr. Vijay Kumar Chaurasiya
18	Business Intelligence & Smart e-Campus Lab	Dr. Ranjana Vyas
19	Introduction to Computer Lab (Hardware)	HoD-IT
20	Computer Lab CC2	Prof. Shekher Verma/Dr. Pavan Chkraborthy

Biomedical Imaging Laboratory

This is a teaching cum research laboratory. Phantom experiments will be conducted to demonstrate basics of ultrasound imaging. The generation of acoustic signal due to absorption of light referred to as the photoacoustic effect will also be demonstrated through simple experiments. Its use in medical imaging will be shown. Experiments for image reconstruction in tomography imaging will be carried out too. Existing as well as prospective PhD students will perform experiments to develop methods for quantifying several blood parameters (e.g. blood oxygenation, aggregation level, hemolysis level, presence of melanoma and malaria infected cells in blood stream etc.). Moreover, experimental data will help to design various computational reconstruction algorithms as well as to validate those protocols. Hopefully, developed methods will find applications in clinics. Many other experiments will also be accomplished along with internal and external collaborators. Facilities are-

(i) Ultrasound transducers (JSR, center frequency- 3.5, 5. 7.5 MHz, bandwidth- 30%, diameter- 0.5 inch).

(ii) Ultrasound pulser/receiver (DPR 300, JSR, bandwidth- 35 MHz, driving voltage- up to 400 V, gain- 0-60 dB)

(iii) Nano-second pulsed laser (NT352C-10-SH-H, Ekspla, frequency- 10 Hz, wavelength range- 1064, 532, 350-500, 660-2600 nm, maximum energy at 532 nm- 405 mJ)

(iv) Oscilloscope (WaveSurfer 3034, Lecroy, number of channels-4, bandwidth- 350 MHz, sample rate per channel-4 GS/s)

Spintronic and Magnetic Materials Lab and Photonic and Metamayrials lab

In the Nanomagnetism and Spintronics research work focuses on experimental studies of magnetic, magneto-optical, and spin-transport phenomena in new functional materials and hybrid nanoscale structures. Current research topics include electric-field control of ferromagnetism, spin transport in ferrimagnetic and ferroelectric tunnel junctions, and magneto-plasmonics of patterned nanostructures.

VLSI laboratory

1. Tunable Light source (TLS) (NwePort TLS 300XU): This instrument provide highly confined and monochromaticlight source ranging from 300 nm to 2500 nm wavelength range which is used to characterize the optical behavior of the opto-electronics devices. This instrument was customized with the attachments of slits, iris and filters to get accurate wavelength. Power can be varied from 200 W to 300 W.
2. Precision LCR Meter with Temperature Controller (Keysight E4980AL): This instrument is used to measure inductance, capacitance and resistance of any bulk and thin film material in the frequency range of 2 Hz to 1MHz. This instrument is separately connected with a 2 probe probing-station. The stage of probing-station is attached with a programmable temperature controller which heats the stage up to 350 ˚C, hence providing the facility of measurement with respect to temperature too.

IRCB Laboratory

1	Cold centrifuge	Thermo Scientific (Sorvall ST8)
2	Fluorescence Spectroscopy	Analytical Technologies Limited FS 2060
3	Nanodrop spectroscopy	Nabi
4	-20 deep freeze	Vestfrost
5	Ice Flaker	BR Biochem Life sciences
6	Fridge	Samsung

Robotics and Machine Intelligence Laboratory

The main vision of the laboratory is to nurture young minds towards creativity and steer their talents towards high quality research in different areas of Robotics and Intelligent Systems using Information Technology. Our mission is to create an international standard for research and teaching, excel in the area of robotics and cognitive sciences, produce high quality engineers having self-confidence and who can take part in nation's knowledge building endeavor and create a brand name for the Institute as a temple of learning.

The laboratory provides state-of-the-art facilities to learn complex concepts of Artificial Intelligence. Students are encouraged to learn by doing it through many available development environments like Robot Operating System (ROS), MobileSim, Humanoid Open Architecture Platform (HOAP), Interactive Graphics Robot Instruction Program (IGRIP), Humanoid & Mobile Robot Simulation Platform, WEBOT, where students can create and control different kinds of robots using both C++ and Java.

Laboratory purchased the Baxter humanoid robot which has a screen that acts as a face for a socialistic experience, 2 manipulating hands with an electrical and vacuum gripper each, cameras at both hands and

forehead to facilitate gripping, and an inbuilt computing system. The robot is compliant to work with the Robot Operating System.

Apart from that we have hardware robots which include:

- **Humanoids**: Baxter Robot, NaO, HOAP-2
- **Mobile Robots**: Pioneer LX, Amigobot, Firebird V, Firebird VI
- **Kits:** Robix, SCARA, LEGO Mind storm, roubdbots
- **Specialized Sensors:** Quanergy 3D Lidar, Microsoft Kinect, ZED Stereo camera (given by NavAjna Technologies for a specific project)

The lab has also made some indigenously developed robots such as:

- Development of Adaptive Modular Active Leg (AMAL)
- Social Mobile Autonomous Robot Testbed (SMART)
- Autonomous Navigation Testbed (SMART)
- Social Interactive Mobile Robot (TINKU)
- Elephant Trunk Manipulator

At present the laboratory has a number of collaborations like:

- Bio inspired robotics group of EPFL, Switzerland
- Instituto de Robótica para la Dependencia, Barcelona
- University Rovira Virgili, Spain
- Artificial Limb Manufacturing Corporations (ALIMCO), Kanpur
- NavAjna Technologies Limited
- Addverb Technologies limited
- Mercedez Benz Research and Development India

The laboratory is currently pursuing numerous projects such as Human Robot Interaction for Emotions, Robot Grasping and Learning by Demonstration, Simultaneous Localization and Mapping in Urban and Extreme Conditions, Social Robot Motion Planning, Synthesis and kinematics of continuum robots, etc.





Bio-MEMS (Bio-micro-electro-mechanical system) and Nanotechnology Lab

The amalgamation of microfabrication-technology with biology and medicine is producing a large collection of BioMEMS devices that could transform the biomedical-exploration and clinical-practice.

The *Bio-MEMS* & Nanotechnology Laboratory at IIIT Allahabad was established in early 2017 with major funding support from the *DST* (WTI-2015, Grant), as well as, *SERB* (Start-up Grant) sponsored research Grant.

It is in the process of constant remodelling and sophistication to accommodate world-class research facilities in this domain. The lab has been established in Room No.: 4114, CC-II, ground floor; and serves to (1) support BME/ BI/ ECE/ IT student's "Bio-MEMS-Lab" and "Biosensors & Transducers-Lab" courses, and train students with hands-on microfabrication/ simulation - skills; and (2) provide innovative research opportunities for undergraduate/ Postgraduate/ PhD students interested in interdisciplinary Bio-MEMS projects. The decisive ambition of the BioMEMS lab is to augment the collection of students that have both acquaintances of microtechnology/nanotechnology and an interest in applying it to medically and biologically pertinent problems.

The BioMEMS lab consists of *four Lab-sections*

(i) Polymer Microdevice/ Nanodevice fabrication Section

Polymer BioMEMS present exclusive advantages over Si or glass-based microdevices in providing a biocompatible, adaptable and low-cost platform for cell-based studies. In this lab section, we are at present focusing on fabricating poly(dimethylsiloxane) (PDMS) based microdevices, using soft lithography.

(ii) Biophotonics Section

This section of the lab offers dark-room facilities related to the optical detection based microdevices or nanodevices.

(iii) Cell / Tissue on micro-chip section

This section of the lab offers critical facilities related to growing/ assorting living cells on microfabricated micro-chip to perform various tissue-engineering/ cell-on-chip based innovative experiments.

(iv) Bio-Medical-instrumentation section

This section of the lab offers critical electrical/electronics facilities related to assembling/ characterizing/ packaging the created bio-medical microdevices or nanodevices, which may lead to proper product design and development.

Equipments

• NUV exposure system	• Syringe Pump
• 3-D versatile printer (custom made)	• Peristaltic Pump
• Laser ablation system	• Laminar Flow system
• Spin coater	• Optical Bench
• Convective oven	• Optical fiber Spectrometer
• Stereozoom microscope	• Mini laser light sources
• Fluorescence microscope	• Precision Hot plate

Other Labs

• Physics Lab	• Modeling and Simulation laboratory
• Biochemistry & Molecular Biology Lab	• Chemistry & Nanotechnology Lab
• Bioinformatics/Advance Programming Lab	• Bio-signal Acquisition and Analysis Laboratory
• IIITA-IAPT Anveshika Laboratory	• Biomedical Informatics Laboratory
• System Biology laboratory	• Biomedical Imaging Laboratory
• Spintronic and Magnetic materials	• Photonic Crystals and Meta Materials

Intellectual Property Right Cell (IPRCell):

IPR Cellhas been recently reallocated in Room No. 1127 of Admin Block, IIITA. It has the ambition to expedite the Intellectual Property Rights (IPR) related activities in IIITA.

One of the crucial plans of action for the present IPR Cell under the R&D Committee is hiring Professional Legal Consultancy Services for enhancing the pace of generation of IPRs. *Further, to fulfil the aforesaid objectives, IIITA has signed, MOU withMyCrave Consultancy (for one year), because of their ultimate cost-effective professional fee structure. IPR-Cell* has been regularly organizing workshops for "Intellectual Property Rights (IPR)" related matters, to educate the students and faculties of the institute, so that they could pursue their projects and creativity in the direction of IPR, and can develop Intellectual Asset for the Institute.

Central Library

The Library of IIITAllahabad is a central pillar of the institute. It is located centrally in the campus at equal distance with other academic wings. The main function of Central Library is to provide support in research and resource linkage for students and faculty members of the institute. It provides a quiet study space for students and researchers. Central Library is stocked with books that cater to the student's academic and research requirements. Audio and multimedia versions of some course modules are also available. In addition, dictionaries, journals, thesaurus and encyclopedias are also provided for reference purposes.

There, an E-Media Section equipped with 25 computers is maintained inside the library for reading e-resources being subscribed by the institute. There is a premier section of Theses/Project Reports for the students. The library has already acquired more than 62000+ books on various courses along with IT related latest titles. The library uses open-source software 'KOHA', for maintaining the database and circulation related daily operations.

Institute is a core member of eShodhSindhu (INFLIBNET) consortium, through which number of e-resources like ACM Digital Library, Economic & Political Weekly, Institute for Studies in Industrial Development (ISID) Database, JGate Plus (JCCC), JSTOR, Oxford University Press, SpringerLink, Web of Science (WoS), etc. are being made available on complimentary basis. Apart from this, the library subscribed a good collection of online e-journals- IEEE Digital Explore, Elsevier-Science Direct, Emerald Management, Sage Online Journals, IOP, APS, AMS and EBSCO etc. directly from the publishers on IP based multiple user access.

Collection

Books	E-Books	Online Journals	Magazine	CDs / Softwares	Lectures / Video Couses
62500+	2800+	13000+	56+	2500+	1005

Functioning

(a) Procurement

- Library procuresbooks, e-books, e-journal databases and magazines etc. based on the recommendations received from faculty members and researchers/students. Orders for the proposed requisitions are placed in consultation with the competent authority.
- Database entry of procured books is done in Library Management System (LMS) according to the accession register.
- Any item procured by the library can be searched on library portal/OPAC (https://library.iiita.ac.in)

- Books are properly arranged in various shelve according.
- At least one copy of every title is kept in the library for reference purpose
- The library has optimum blend titles, covering reference interests and also text books.

(b) Circulation

Library provides self registration facility to the students/researchers based on their ID card issued by the institute. Once registration process is completed, registered member can self issue the books using LDAP credentials. Online book reservation facility is also available through OPAC if the book is not readily available in the library. Auto generated e-mail alert for New Arrivals, Loan Status, Overdue Reminder and availability status of reserved books etc. are sent to every registered member.

(c) Digital Repository

IIITA Digital Repository (IDR) preserves and enables easy and open access to all types of digital contents including theses, research articles and other scholarly publications etc. The main objective of the IDR is to preserve and enable easy and open access of all types of digital contents to the library users. It developed as an initiative to create and update a comprehensive database of research works becoming a gateway to digital and electronic information.

(d) Online E-Resources

Central Library subscribes various online e-resources as mentioned above. Subscribed digital contents can be accessed throughout the campus as publishers are providing IP based multiple user accessibility with unlimited download facilities. E-resources are:

- **E-Journals**

S. No.	Title of the Subscribed e-Resource (Through eShodhSindhu)	S. No.	Title of the Subscribed e-Resource (Direct)
1	ACM Digital Library	1	IEEE Digital Library
2	Economic & Political Weekly	2	EBSCO Business Source Ultimate
3	Institute for Studies in Industrial Development (ISID) Database	3	Emerald Insight
4	JGate Plus (JCCC)	4	Sage Publication
5	JSTOR	5	American Mathematical Society (AMS)
6	Oxford University Press	6	Institute of Physics (IOP)
7	Springer Link	7	Elsevier-Science Direct
8	Web of Science	8	American Physical Society (AMS)

- **E-Books**

S. No.	Title of the Subscribed e-Resource	No. of Titles
1	Pearson Education	600
2	Elsevier-Science Direct	1245
3	McGraw-Hill	111
4	PHI	13
5	Springere Nature	723

NDL E-Resources

- World e-Book Library
- South Asia Archive (SAA)

(e) Plagiarism Detection Software

- Turnitin
- (Urkund) - Ouriginal



Library Building

12

Institute Events

- Academic Events
- Administrative Events

Academic Events

XVII Convocation

18 March, 2023

The Seventeenth Convocation of Indian Institute of Information Technology Allahabad held on Saturday, 18th March 2023 (3rd Saturday of March). Degrees awarded to all such students who have successfully completed the requirements of their respective programme.



International Conference on Emerging Trends in Business, Management, and Technology

10-11 March, 2023

Aim of the conference was to provide a platform to the academicians, practitioners, researchers, and students to exchange their views, knowledge, experience, and insights on the emerging trends in business, management and technology.



ISEC 2023

23-25 February, 2023

ISEC is the annual conference of iSOFT, the India chapter of ACM SIGSOFT India. The 16th edition of the conference was held at Indian Institute of Information Technology Allahabad. The goal of the conference was to provide a forum for researchers and practitioners from both academia and industry to meet and share research problems, experiences, and cutting-edge advancements in the field of software and systems engineering.



9th IEEE UP Section International Conference on Electrical, Electronics & Computer Engineering (UPCON-2022)

2 December, 2022

UPCON-2022 is top level International Conference covering broad topics in the areas of Electrical, Electronics and Computer Engineering, organized by IIIT Allahabad, India. UPCON conference is organized annually at various locations in Uttar Pradesh.



3 Days Workshop on Human Robot Interactions

24 November, 2022

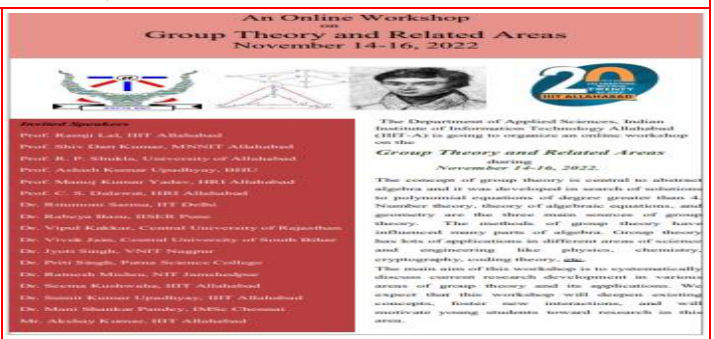
The Center of Intelligent Robotics, IIIT Allahabad organized a 3 Days workshop on Human Robot Interaction sponsored by the IHub Foundation for Cobotics, IIT Delhi and the Department of Science and Technology. Leading roboticists from within the country and internationally were participated and delivered talks.



An Online Workshop on Group Theory and Related Areas

14-16 November, 2022

The Department of Applied Sciences, Indian Institute of Information Technology Allahabad organised an online workshop on Group Theory and Related Areas during November 14, 2022 - November 16, 2022.



IIITA Global Alumni Meet 2022

4-6 November, 2022

After the pandemic of COVID-19, the institute hosted its annual "Global Alumni Meet 2022 (GAM2022)" in a physical mode at the campus. Many alumnies and their family members were attended the program with excitements and shared their memories and relive the moments they had left behind.



2 Weeks AICTE (ATAL) sponsored FDP on Advances in Artificial Intelligence

31 October-11 November, 2022

A two weeks AICTE (ATAL) sponsored Continuous Professional Development Program (CPDP) / Faculty Development Program (FDP) on "Advances in Artificial Intelligence" was organized by Computer Vision and Biometrics Lab, Department of Information Technology in both online (first week October 31 - November 05, 2022) as well as offline (second week November 07-11, 2022) mode.



AICTE Sponsored (ATAL) 2 Week FDP on Computational Biology in Therapeutics & Theranostics

10-21 October, 2022

AICTE sponsored (ATAL) two-week FDP on computational biology in therapeutics & theranostics in both Online (10 -15 th October, 2022) and Offline (17 - 21st October, 2022) mode, was organized by the institute.



E&ICT IIT Roorkee & IEEE Uttar Pradesh Section Sponsored Project (FDP) on Techno-Entrepreneurship Training Program (Online Mode)

15-19 September, 2022

This FDP was focused to the Research community, Utility professionals, and Industry Stakeholders as a major domain of interdisciplinary subject with the aim of motivating budding technocrats to participate and learn the techniques of setting up a business unit.



1st International Workshop on Core Data Science (CDS 2022)

29 August - 2 September, 2022

The primary objective of the "Core Data Science (CDS 2022)" workshop was aimed to bring together individuals involved with building the foundation for data science and its applications in science, engineering, technology, and society.



International Conference on Computer Vision and Machine Intelligence (CVMI) 2022

12-13 August, 2022

A new state-of-the-art Computer Vision and Machine Intelligence (CVMI) Conference avenue was conceived by Computer Vision and Biometrics Laboratory (CVBL) of Indian Institute of Information Technology Allahabad (IIIT Allahabad) for the researchers to disseminate their research outcomes.



5th One-Week Short Term Course on Advances in Deep Architectures for Signal, Image and Vision Applications (ADASIVA-2022)

8-13 August, 2022

5th One-Week Short Term Course on Advances in Deep Architectures for Signal, Image and Vision Applications (ADASIVA-2022) was organized by the institute during 8-13 August, 2022.



2 Days Workshop on Human Robot Interaction

6-7 August, 2022

The CIR-IIITA in collaboration with partner IHFC-IIT Delhi, organized two days workshop on "Human Robot Interaction" on August 6 and 7, 2022.



Alumni-Students Mentorship Webinar under the Track "Venturing in Entrepreneurship"

6 August, 2022

To encourage the current students to make their career in the 'Entrepreneurship' domain, the Alumni Affairs office conducted this webinar where the notable alunmies showed their interest in this mentorship program.



Intellectual Property Rights Awareness Program

26 July, 2022

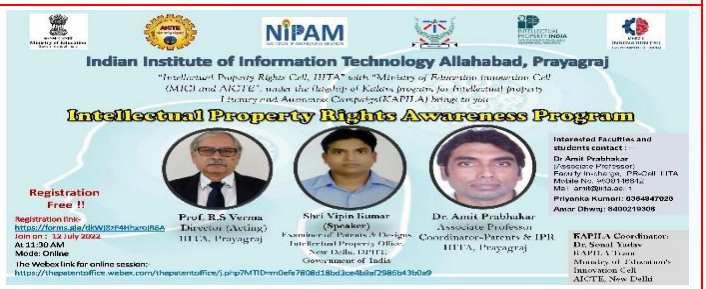
The webinar on "Intellectual Property Rights Awareness Programme" organized by the Office of the Controller General of Patents Design & Trademarks, Department for Promotion of Industry and Internal Trade.



Intellectual Property Rights Awareness Program 2

12 July, 2022

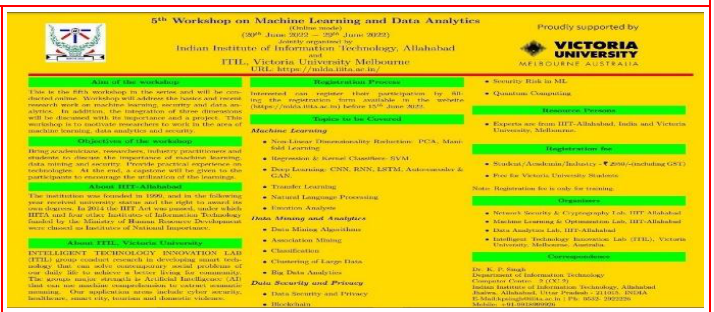
The institute organized Intellectual Property Rights Awareness Program", under the flagship of the Kalam Program for Intellectual Property Literacy and Awareness Campaign (KAPILA), hosted by the IPR-Cell, IIIT Allahabad.



5th Workshop on Machine Learning & Data Analytics (MLDA)

20-29 June, 2022

This was the 5th workshop in the series conducted in online mode. Workshop was focused to address the basics and recent research work on machine learning, security and data analytics.



5th Summer School and International Conference on Behavioural Finance

13 June, 2022

The Department of Management Studies, IIIT Allahabad, had organized 5th Summer School and International Conference on Behavioural Finance, during 13th June, 2022.



Summer training program on VLSI Design

6 June - 5 July, 2022

A specialized one-month summer training program from 6th June to 5th July 2022 was conducted at IIITA. Its covered analog and digital integrated circuit design using commercial technology kits and simulation tools along with exposure to fabrication methods and PCB design. The experts from Industry and academia provided the training to the registered applicants.



Summer Research Internship 2022 under Center for Cognitive Computing (CCC)

31 May, 2022

To encourage undergraduate research, CCC announced a six to eight-week-long Summer Research Internship Program during the summer vacation period of 2022. The main aim was to provide an opportunity and exposure to the outstanding senior level UG (2nd/3rd/4th year) and Dual Degree students.



3 Day Online Workshop Crafting Research via Industry-Academia Interface

26 May 2022

The Department of Management Studies, IIIT Allahabad, had organized a three days online workshop during 26th May, 2022.



Summer School In Geospatial Science and Technology

23 May 2022

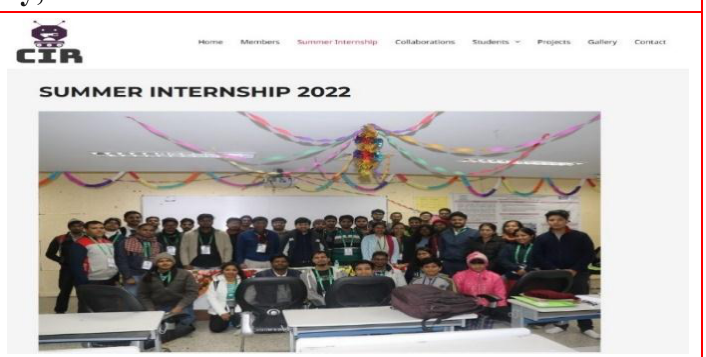
The Department of Information Technology, IIIT Allahabad organized 'Summer School in Geospatial Science and Technology' during 23 May to 12 June, 2022.



Summer Research Internship 2022 under the Center of Intelligent Robotics (CIR)

20 May, 2022

The aim of this internship program was to provide as much information, guidance, and an opportunity to learn new technical skills to increase the chance of getting a promising career in the industry and higher education.



Self Financed Short Term Course-cum Workshop on Data Science & Its Application Areas (DSAA -2022)	
14 May, 2022	
With the purpose of innovative research, projects, and create a knowledge base among researchers & academicians about data sciences, the Data Analytics Lab of IIIT Allahabad during 14 May, 2022.	

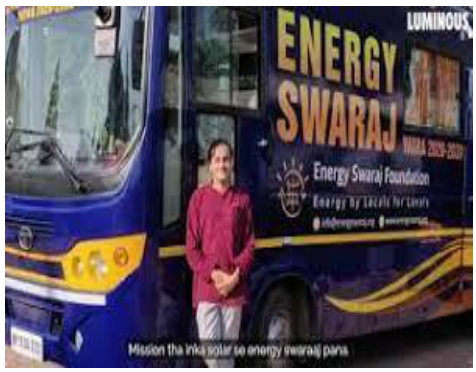
Administrative Events

JAN- BHAGIDARI PROGRAMS 2023 (June 1-5, 2023)



IIIT-Allahabad celebrated World Environment Day 2023 with a week-long series of events under the theme "One Earth, One Family, One Future" (Vasudhaiva Kutumbkam). These activities included a plantation drive, an e-slogan and poster competition, solar panel cleaning, composting, sustainable shopping promotion, an environmental commitment ceremony, a bicycle drive, and mass vehicle pollution checks. The celebration from June 1 to June 5, 2023, successfully raised environmental awareness among the campus community, fostering a commitment to a greener future. The bicycle drive aimed to highlight the connection between physical activity and environmental well-being. IIIT-Allahabad remains dedicated to sustainability and environmental preservation, pledging to continue organising impactful events for a brighter and more sustainable tomorrow.

Energy Swaraj Yatra (26 June 2023)



Renowned as the "Solar Man of India," Professor Chetan Singh Solanki, founder of the Energy Swaraj Foundation, graced our campus to raise awareness about solar energy. His visit emphasised individual energy conservation as a crucial tool to combat global warming, urging a shift from carbon-based energy sources like coal.

Solanki introduced the AMG (Avoid, Minimise, Generate) approach for energy use changes and discussed the evolving climate, its causes, responsible parties, and actionable steps for individuals and organisations to address climate issues locally.

He advocated "Energy Swaraj"—local energy generation and use—as a solution, highlighting the importance of individual action beyond government policies. The Energy Swaraj Yatra, a solar bus journey from November

2020 to December 2030, aimed to create a national movement for Energy Swaraj and climate change mitigation. Solanki's visit inspired us to embrace sustainability and take collective action for a greener future.

Yoga Day (21st June 2023)



International Yoga Day is celebrated annually on June 21st, coinciding with the summer solstice, to promote yoga's numerous benefits. It emphasises holistic well-being, balance in modern lives, and physical, mental, and spiritual harmony. Yoga enhances mindfulness, reduces stress, and boosts overall health. The 2023 theme is **"Yoga for Vasudhaiva Kutumbakam,"** symbolising our shared vision of "One Earth, One Family, One Future."

Partition Horror (14th August 2023)



On August 14, 2023, at 4:00 pm, IIIT commemorated Partition Horror Remembrance Day in the Admin Auditorium. Prof. Anand Shankar Singh Ji, principal of IS PG College Prayagraj, delivered a moving lecture. This day, known as Vibhajan Vibhishika Smriti Diwas, started in 2021 following Prime Minister Narendra Modi's announcement. It honours the victims and hardships of the 1947 partition of India, reminding us of the need to eliminate social divisions and foster unity and harmony among all Indians. India faced this separation, with families displaced and lives lost. This day emphasises the importance of social harmony and human empowerment.

Har Ghar Tiranga (13 to 15 August 2023)



'Har Ghar Tiranga,' part of Azadi Ka Amrit Mahotsav, encouraged individuals to bring the Indian flag into their homes and hoist it for India's 75th Independence Year. IIIT-A celebrated this initiative from August 13 to 15, with 222 participants hoisting the national flag on their terraces, promoting awareness and patriotism. A lively rally on August 14 showcased the affection and respect of a significant number of IIITans for the National Flag. Participants also changed their display pictures to feature the Tiranga on August 13 and 15, symbolising their unity and patriotism.

Meri Maati Mera Desh (8 September 2023)



IIIT Allahabad observed the **"Meri Maati Mera Desh"** campaign on September 8, 2023, at 5:00 pm, with a significant turnout. This event, which began on August 9, 2023, as part of the 'Azadi Ka Amrit Mahotsav,' pays tribute to the brave individuals who made sacrifices for the nation. **"Meri Maati Mera Desh"** envisions a unified celebration of India's soil and valour, commemorating the nation's journey of freedom and progress. By connecting with the land and honoring our heroes, this program will instill a sense of national pride and inspire future generations to protect India's cherished heritage

13

Student (Gymkhana) & Activities

Student (Gymkhana)

Presidential Council		
Varun Bhardwaj (IIT2019091) President	Kunal (MEC2021031) Vice President	
Rohit Yadav (RSI2019001) Speaker	Abhiram Akula (IIT2020243) General Secretary	Ashish Tyagi (IIB2019016) UG, Presidential Council Member
P. Shashirith (IEC2020069) UG, Presidential Councl Member	Nand Kumar Yadav (PIS2016004) PG, Presidential Council Member	
Secretariates		
Sarthak Dalmia (IIT2020163) Sports Secretary	Pranav Raj (IIT2020144) Academic Secretary	Shashank Tiwari (IEC2020062) Cultural Secretary
Mohd Shadaan Hussain (IEC2020038) Technical Secretary	Sachin Kumar Behera (IEC2020062) Student Welfare Secretary	

Activities of Gymkhana

The Indian Institute of Information Technology, Allahabad has been a center of excellence in academia, sports and technology for over 23 years now. It has pushed the allegorical boundaries, scaled the emblematic mountains and struggled against every metaphorical obstacle thrown our way. The aim of any education system is to produce leaders who can contribute to the society they are a part of. Sports and extracurricular activities have for long been considered a brilliant tool to groom and mold students into team players and leaders. IIIT Allahabad has continually endeavored to push the boundaries in all disciplines. IIIT Allahabad provides excellent infrastructure for its residents to ensure that academic development is duly supplemented by sufficient physical and personality development as well.

Today the institute is offering its students a creative ecosystem where inquisitiveness and ingenuity is not only encouraged but also rewarded. A healthy amalgamation of academic, sports and cultural undertakings is helping students excel in what they want, making the institute a haven for visionaries and game changers. We have come a long way in such a short time and I hope we continue on this exponential growth trajectory and go far beyond the figurative skies of human struggle and triumph.

Few things in the world are more powerful than a positive push. A smile, A world of optimism and hope. Hope and optimism made us do things with a smile in this deadly pandemic.

Indian Institute of Information Technology, Allahabad has created a self-governing democratic organization called Students' Gymkhana. The Students' Gymkhana is empowered to achieve the following objectives with the active help and support of its members and the infrastructure available at its disposal:

- To foster and develop all student activities in the Institute.
- To promote and develop organizational abilities in students.
- Identify student issues and promote discussion on them.
- To develop a well-informed, articulate and participative student community life, and to increase social awareness.

Technical Council

Without our technical council, we wouldn't have half the events at out fests. APAROKASHA Aparoksha, the annual Technical Festival has grown into one of India's largest and most anticipated platform for technocrats and

served as a medium for young innovators from our institute as well as others colleges to show off their technical prowess in the events held as a part of the fest.

Aparoksha serves as a perfect launch-pad for tech enthusiasts to showcase their intelligence and inventiveness and a massive platform for various activities, featuring an interesting line-up of more than 30 Sci-tech events including Competitive events, technical conferences, Guest Lectures, and workshops during the three days of April. Boasting a huge roster of exciting and engaging events, Aparoksha'23 witnessed the performances renowned personalities like Vivek Gupta, Ajit Padmanabh and other artists.

The events which were conducted throughout the Aparoksha'23 are as follows:

Humblefool Cup- It is a 2-tier ACM-ICPC style international level coding contest conducted in the fond memory of Harsha Suryanarayana A.K.A Humblefool, one of the best coders of India, an alumnus of IIIT Allahabad and one of the very first Indian red coders on Topcoder.

C-Fresh- It is a programming contest held each year to promote competitive coding skills among the students of first year.

Codered- A coding contest but with an exciting twist. Complete your teammate's code and see if you really make a good team. Each member of the team gets 15 minutes to code, with transition time when members switch. Winner will be the team to get maximum solutions accepted.

Code Queen- Code Queen, as the name implies, hunts for the best coder amongst girls. To promote participation of girls in the technical field we have this event exclusively for girls.

Nova- It is a UI/UX design challenge, where a fictional company will be given. Participants will be required to create the web/mobile application within stipulated time limit.

Minimal Mania- Minimalism is the art of conveying more in less. The aim is to Create a minimal poster on the given theme.

Webkriti- Show your creative skills at this web development event. Create a UI based on the problem statement provided. Check your development skills and see if you can make what we want.

M.A.D.- Mobile app development is a journey from being an android user to being an android developer. Develop an android app based on a given theme and prove your mettle in this field.

GrayHound- GrayHound is an illustrious Biz-Tech quizzing contest for all those who love challenges and think that they know the world a little better than their peers.

IPL Bidding- A simulation of IPL Auctions to test your business skills.

Stock Trading- An event for the Bulls and Bears. A perfect live simulation of Stock Market Trading coupled with the pressure to win or lose it all.

Frag Fest- One of the most anticipated events of Aparoksha, Frag-Fest is every gamer's asylum. A hub where people with "gamertag" are invited from all over the nation to display their immaculate skills and steal the show.

Mr. Googler- Believe it or not, Googling is an art. This event tests your skill at googling things. Work your way through the questions to establish yourselves as the top Googlers.

Githero- An online event wherein you can showcase your git skills by crawling through some exciting challenges.

Treasure hunt- Solve puzzles and riddles to claim your prize.

319 BlockChained- Aparoksha's premier blockchain event.

Ex-Machina- Aparoksha's premier machine learning based event.

She-Hacks: An 18 to 24 hour long hackathon, solely for female coders to build projects catering to real-world problems. It witnessed a participation of 250+ female developers.

Geekhaven

Geekhaven, the technical society of IIITA conducted various events in the session 2022-2023.

1. OpenCode'22

Opencode is a nationwide open source month long event. conducted by Geekhaven from Dec'22 to Jan'23. More than 25 projects were hosted on Github by Geekhaven Members. OpenCode organizers will be maintaining and mentoring numerous repositories with projects from a wide range of fields such as Web Development, App Development, Design, Cybersecurity, Blockchain, etc. With a competitive leaderboard motivating the participants to take up issues and get their pull requests merged, there is ample opportunity for beginners as well as experienced developers to upskill themselves and have a fruitful experience in building real life projects.

Statistics of OpenCode'22

- 900+Registrations from different colleges.
- 500+ contributors
- 700+ issues
- 2000+ PR's

Winners

1. Sanyam Agrawal (IIT2021204)
2. Aastha (IEC2021011)
3. Sushant Kumar (IIT2021147)

2. CodeSenso'23

Guided by the motive to assist the students in enhancing their knowledge of DSA. Codesenso is a rate competition conducted by Geekhaven on Codechef as Starters 94 on Jun 14, 2023

Statistics of CodeSenso'23

- Over 30000 registered students
- Over 21000 participated in the contest

Winners:

1. Ri Chok (University of Sciences, D.P.R Korea)
2. Ashwanth K (NIT Trichy)
3. Shreyas Hari Nambiar (IIT Roorkee)

3. GeekCamp'23

A series of workshops and hackathons for the first year students to teach them various development skills like Design, Web Development, App Development, Blockchain, AI/ML and Cybersecurity. More than 400 first year students participated in these workshops conducted from March 2023 to May 2023

Winners:

- **FOSS Hackathon**
  1) Saiushasree1
  2) Parthrcode
  3) Prateek2pathak
  nijval21
  DRedDevil04
  lavishmeena2764
  Oshankiii12
- **WebD Hackathon**
  1) tonyStarkJr
  2) Bhupesh98
  3) DebjyotiRay

4. Hackout'22

Hackout by Headout is a large-scale annual 48-hour international hackathon with massive participation of tech enthusiasts from all across the country. Hackout'22 in partnership with Geekhaven IIITA, was scheduled from 14th - 16th October 2022 in offline mode at the IIITA campus.

Winners from IIITA:

1) Team JAAP (Pratyaksh Singh, Abhay Singh, Janhavi Bawaskar, and Arjav Kanadia.).
2) Team Ctrl-C + Ctrl-V (Aditya Verma, Mitul Varshney, Manav Agarwal, Pankaj)
3) Team Elyx (Garvit Chittora, Varun Bhardwaj, Shreyas Gupta, Kunal Kunwar)
4) Team Rocket (Suhail Ahmad Khan, Atharv Badgujar)

TESLA

The Electronics society of IIITA aims to help Tech and Electronic enthusiasts by providing them guidance and the space to build their imaginations. At the beginning of Our Session, we Conducted Our Introductory workshop.

1. ELECTRO TOUR 2.0.: It is aimed to familiarize the newcomers with the electronic society in the most interactive way possible by providing them with all the components That Tesla possesses, and let their Curious Mind start questioning.

2. Electro Combat: Followed by the Electro Tour, Electro Buzz is a fresher only competition to award their attentiveness and curiosity.

Once the Students have been familiarized by the basic components, Workshops are conducted every month as much as possible. The Workshops usually included some advanced Sensors, and sometimes even projects created by Team Tesla themselves.

After the students were familiarized with projects, Tesla, with Help of Aparokhsa Hosted week-long events as follows:

- **TopBot'23:** As the legacy event of tesla, Students are enticed to create a bot in the given time frame with provided items with one goal, to reach the endpoint of the path filled with obstacles as effectively as possible.
- **Salvage Savages:** Students created wonders from salvaged electronic items • ProArduino: Students were quizzed regarding the working and structure of Arduino and its variants

- **Circuit Chef:** This event sought to check the debugging capabilities of participants and finding the simplest way to establish connection between components
- **Herbert's Loop:** It was organised to test the logical thinking of the students
- **Electro Holmes:** A fresh quiz targeted specifically for people new to the electronic field

Team Tesla, Under the guidance of DIC (Design Innovation Centre IIITA), participated in the Robotics competition (Kshitij) Held in IIT Kharagpur, where the team build a RC plane.

GRAVITY

Gravity is a vibrant and active technical society that is committed to promoting innovation and technical education. The society has a strong track record of organizing successful events and providing students with opportunities to learn and grow.

Gravity has recently organized a number of successful events, including:

- **III (Interrupt Innovate and Iterate):** This is the annual technical hackathon organized by Gravity. It is a 36-hour hackathon where students from different backgrounds come together to build innovative projects. The 2023 edition of the hackathon saw a staggering 517 applications and 29 submissions.
- **Inquizito:** This is a quiz competition organized by Gravity for students of IIIT Allahabad. The 2023 edition of the competition saw 30+ participants from the college. The top 10 participants made it to the final round and the top 3 won the prizes.
- **Through the lens:** This is another competition organized by Gravity for students of IIIT Allahabad. The 2023 edition of the competition saw 22 registrations and the top 5 teams won the prizes.

Sports Council

The IIIT Allahabad Sports Society provides you the SPIRIT of life, the SPIRIT of competition, the SPIRIT to win, the SPIRIT to rise, the SPIRIT to participate, and the SPIRIT to eventually prove the one inside you. We have the drive, daring, and excitement to provide you with the most exciting sporting events in IIITA. We, as a sports society, arranged many events last year that were great and well-organized, and everyone thoroughly loved them.

1. The year started on a high note with successful trials before the sports fest Asmita. The rigorous training and selection process allowed us to assemble strong teams for various sports, which led to an exceptional performance in Asmita where our college competed with different colleges.
2. To ensure our teams were well-prepared, we organized friendly matches with different teams within Allahabad. These matches provided valuable experience and practice, helping the teams to fine-tune their strategies and teamwork.
3. IIITA actively participated in Udghosh'22, the Sports Fest at IIT Kanpur. Our athletes showcased their talent and sportsmanship, leaving a mark on the prestigious event.
4. Welcome matches were conducted exclusively for 1st-year students. This initiative aimed to foster a sense of camaraderie among the newcomers and helped them integrate into the sports community of IIIT Allahabad.

ASMITA

Every year in February, the Sports Council of Students' Gymkhana organizes the Annual Sports Meet of IIIT Allahabad, known as ASMITA.

A large number of colleges took part in our sports festival, ASMITA. They enthusiastically engaged in every event. ASMITA's level rises year after year thanks to the participation of students, teachers, and staff members in numerous sports. ASMITA's level was raised even higher when students from other institutes came in to demonstrate their athletic abilities. Participation from diverse universities aided in the development of real sportsmanship, camaraderie, and a spirit of collaboration among students.

Asmita, the annual sports fest of IIIT Allahabad, was conducted successfully in offline mode for the first time after the pandemic. The event witnessed enthusiastic participation from students of various colleges, and it proved to be a grand success, promoting sportsmanship, friendship, and cooperation among all participants.

1. The sports fest featured a diverse range of events catering to different interests and talents. The following sports were conducted for both male and female participants:

   Team Sports: Kabaddi, Volleyball, Football, Basketball, and Cricket.

   Individual Sports: Table Tennis, Chess (classical and blitz), and Athletics (track events like 100m, 200m, 400m, 800m, 1500m, 3000m, and field events like javelin throw, discus throw, shot put).

   Aquatic Events: Swimming events including breaststroke, backstroke, freestyle, and butterfly; relay and medley relay.

2. Alongside the sports events, the fest featured various fun events, both online and offline, to engage the participants and add to the overall enjoyment of the festival. The events were categorized as follows:

   Online Sports: FIFA 23 (projected on a wide screen), BGMI, Mini Militia.

   Offline Sports: Gully Cricket, Futsal, Tug of War, Pittho, Chess, and Tambola.

3. To ensure the participants' comfort and refreshments, food stalls were set up on the premises. Additionally, Asmita concluded with a breathtaking firework show, leaving a lasting impression on all attendees.

The combined efforts of SPIRIT and ASMITA made the annual sports activities at IIIT Allahabad a resounding success. The dedication of our athletes, organizers, and support from the entire college community played a crucial role in promoting sports culture and excellence at our institution. We look forward to continuing this legacy and achieving even greater milestones in the coming year.

Cultural Council

This council is responsible for the promotion of cultural activities in order to preserve the heritage of the Institute and inculcate among students, a sense of cultural unification

Dramatics Society

Rangtarangini, the dramatics society of IIIT Allahabad is responsible for promoting theatrical art and culture on campus. The society organises engaging workshops for acting and scriptwriting, empowering students for both stage and street plays. It engages actively in all occasions through various stage plays and drama competitions:

- Foundation Day Drama
- Global Alumni Meet Drama

- **Innovation:** A drama competition in Effervescence where students from different colleges compete by giving exceptional stage performances.
- **Bindass Bol:** A street play competition in Effervescence organised by the society where people from different colleges and theatre groups participate.
- **Tongues on fire:** A one-of-a-kind debate battle organised in Effervescence with a shift from the usual monotonous topics to quirky ones.
- **Shoot your shorts:** An online event organised by the society where people can showcase their acting skills through a minute-long video.
- **Drama Nights:** A drama event where society gives spectacular stage performances to the audience.

Literary Society

Sarasva is home to all things literary: from admirably articulate articles to penetratingly pensive poetry, to stories that leave one delighted, appalled or touched. It has a bit of everything since there's literature in everything.

It organizes debates, group discussions, writing and other literary competitions. This is the place to take a halt and unveil your talent of appreciating the beauty of expression.

Following are the events conducted and initiatives by the society during the academic year 2022-23:

Anchoring: Sarasva managed the anchoring for most events held throughout the session, including Foundation Day and Alumni Meet.

Group Discussions: Various enriching group discussions were held throughout the session over a plethora of topics with social and political themes, promoting civil and logical discussions.

Saqqara: Sarasva's own blog, Saqqara, provided a platform for IIITA students to exhibit their flair in writing, share their stories, and voice their opinions.

TEDxIIITA: Conducted during Aparoksha, TEDxIIITA brought together inspiring TED talks by speakers from various domains, sharing ideas worth spreading.

Fresh Verses: A month-long online writing competition was held exclusively for freshers, accepting literary pieces of all types and topics.

Kavi Sammelan: A symposium of young Kavis was organized twice, where a small group of freshers came together on the stage of Foundation Day to appreciate and exhibit the art of Hindi-cum-Urdu poetry.

Feathers: A month-long open online writing competition, held as a part of Effervescence, accepting short verses and stories written on prompts given by the society.

IIITA-MUN: Delegates worked with participants from all over the country in a Model United Nations environment held on campus, dissecting world affairs and creating policies.

Open Mic: During Effervescence, passionate poets and eloquent storytellers from various colleges gathered to share their emotions and tales.

Crossroads: A contest consisting of several rounds of spirited debates over a plethora of social and political topics was conducted during Effervescence.

Spot Writing: A two-member team event was held during Effervescence to test coordination and creative writing skills in a given amount of time.

Cognoscentia: The flagship quizzing event of Sarasva was held during Effervescence, featuring mind-boggling questions and participation from around the country.

Lit Us Review Stuff: Litsoc provided a platform for students to write articulate reviews for TV/web series, YouTube channels, and movies, honing their critical skills.

Hill I'll Die On: An informal event was conducted within the club where teams participated to defend a topic of their choice, revolving around different themes like entertainment, politics, world issues, etc.

Music Society

The Music Society is responsible to provide a platform for the students to showcase their musical talent. The society apart from having a college band has been successful in putting up wonderful performances and also being helpful in letting the student bite the music bug. Society attends various concerts and musicals during the year. Following are events –

- Foundation Day performances
- Global Alumni Meet performances
- Chords- The odd-sem flagship event of Virtuosi.
- Effervescence-

1. Open jam: open jam was organized on the day 0 of Effervescence.

2. Antakshari: A musical competition where participants have to guess the song.

3. Melodieux: A karaoke-like music talent competition.

4. Instrumento: An online event open to everyone to showcase there instrumental talent.

- **Open Jam-** conducted in collaboration with Asmita on the final day.
- **Confuzon-** The even-sem flagship event of Virtuosi organized during Aparoksha.
- Conducted saraswati vandana at various events whenever called upon.

Acoustics and Media Society

The institute takes immense pride in the exceptional services provided by this highly efficient society, which plays a crucial role in managing lighting, audio equipment, and visual recording for various events at IIITA. This society operates as a unified and coordinated team, handling all audio and lighting aspects of college events with expertise.

Throughout the academic year, the following events were successfully organized:

Exploracion: An exclusive online competitive photography event specifically tailored for freshers. Participants were enthusiastically encouraged to explore the institute and capture mesmerizing pictures.

Flash: An online photography event where participants showcased their skills by capturing photos based on specific themes.

Tasveer: Our Annual flagship online photography event, showcasing the pinnacle of visual artistry and creativity.

Dance Society

Synthesis of ideas, a symphony of motion, artistic expression, and an appreciation of idyllic beauty.

Aparoksha 22- After a protracted wait, the first event of the crew is Aparoksha 22.

Foundation day- Show off your dancing prowess and increase your sense of vitality by dancing to your favourite music and entertaining the audience. Here comes our freshers brought to you by the GeneticX Crew.

Alumni meet- Demonstrate your dancing prowess and increase your sense of vitality by dancing here comes the crew.

Footloose- Footloose the group dance event, the signature event of the dance organisation, is presented to you by Effervescence and The GeneticX Crew, price worth of 50k.

Carpediem- Carpe Diem is a solo dance competition presented by Effervescence and The GeneticX Crew that is open to all competitors, price worth of 8k.

La Frenze- La Frenze is an all-inclusive duet dance event in Effervescence and price worth of 8k.

Show off- SHOW OFF is an online dance party brought to you by Effervescence and The GeneticX Crew IIITA. The performance can be a solo, duet, or group one. Since it will be conducted online, price worth of 5k.

In10sity- Aparoksha 23 Introducing aparoksha 23, a collective dance event from the GeneticX Crew.

The Fine Arts Society

The Fine Arts Society endeavours all of its members to pull off something unique, creative and out of the box each time. It is for the art lovers of the institute. All the creative work and art in and around the campus you see may very likely be a part of their work and creativity.

- Janmashtami Decoration.
- Effervescence Decoration including main-gate, lights and pavilion.
- Asmita Decoration including pavilion pillars and lights around the campus.

The events and competition held by the Fine Arts Society gathers huge crowds and participants.

- **Sketchers-** Online sketch making competition
- **Face-Painting-** Face painting competition for a team of 2
- **Toon-Con-** Online animated cartoon making competition
- **Graffiti-** Painting on flex walls for a team of 4-5 members.
- **Schizzare-** Online painting competition.

14

Grievance Redressal Measures

Grievance Redressal Measures

In pursuance of implementation of point 20 of the 20 point program relating to responsive administration as communicated vide G.O no 28-29/2002-TS.I Dated October 11, 2002 read with G.O F.No. C.36011/11/2005- PG Hol MHRD dated November 17, 2005 as amended up-to-date, the following Grievance Committee wide Office Order No. IIIT-A/RO/399/2022 dated 28.11.2022 has been re-constituted by the Competent Authority for a period of two years or till further orders.

1.	Dr. Rajat Kumar Singh	Chairman
2.	Prof. Neena Kohli, Univ. of Allahabad (University of Allahabad)	External Representative
3.	Prof. Manish Goswami	Faculty Representative
4.	Dr. Pramod Kumar	SC/ST/OBC Representative
5.	Dr. Savitri Joshi	Women Representative
6.	Dr. Navjot Singh	Minority Representative
7.	Dr. Kanchan Kumar Tiwari	Officer Representative
8.	Shri. Sanjay Kumar	Regular Staff Representative
9.	Mrs. Nisha Dubey	Contractual Staff Representative
10	Ms. Priyam Pandey	Gymkhana Representative
11	Dr. Kavindra Kandpal	Member Secretary

Dr. Rajat Kumar Singh has been designated as fulltime Grievance Officer of the Institute. He will be assisted by the **Grievance Redressal Committee (GRC)** in discharge of his duties as Grievance Officer of the Institute as per orders of the Government from time to time in this regard.

The working of employees (Faculty, Officers and Staff Members) and students are very important for the smooth functioning of the Institute. The maintenance of a conducive environment for the overall growth in academics and research domain is the primary responsibility of all the employees and students in the campus. This responsibility has been showered by the Institute to all its employees and students. The following is the mandate for the office of **Grievance Cell** of the institute:

1. To look into the genuine grievances of the employees and students.
2. Maintain liaison with the administration in matters regarding the grievance

The office of the **Grievance Cell (GC)** is established with an objective to settle genuine grievances of the employees and students, so as to create a healthy environment among the administration, employees and students. This office is mainly responsible for maintaining the cordial atmosphere among the employees, students and administration whenever any employee or student is not satisfied with the decision given by the administration. An efficient grievance cell is a must for an administration to claim for a user-friendly and responsive nature.

In the discharge of his duties, the Chairman will have the right to call for any information, papers and records etc. from the office of the Institute and it will be the duty of the Institute officials concerned to promptly produce relevant records called for by the Grievance Officer for his expeditious disposal of grievances.

Committee for Prevention of Women Harassment at Workplace Committee

In supersession to the Office order No. IIITA/ODRA/153/2017, dated 11.7.2017, the Committee for Prevention of Women Harassment at workplace Committee is reconstituted by the competent authority as follows:

1	Prof. Krishna Mishra (the senior most woman faculty representative)	Chairperson
2	Prof U. S. Tiwary, Dean (Human Affairs)	Co-chair
3	Prof. Vijaishri Tiwari	Member
4	Dr. Uma Kalpagam, Professor, G. B. Pant Social Science Institute, Allahabad	Member (External)
5	Mr. Rohan Gupta, Advocate (Legal advisor)	Member (External)
6	Dr. Pavan Kumar Saini, Joint Registrar (Estt.)	Member

The term of the Committee is effective from July 12, 2017 for a period of 02 years or till further order. This is in accordance with the rules as given in the Handbook provided by Ministry of Human Resource Development (Department of Higher Education), Vigilance Section under their Letter no- 23011/01/2016-Vig, dated 07.06.2017. Services rendered by the outgoing members are highly appreciated

Prevention of Ragging in the Institute

Ragging in the educational institutions has been yet another social evil that has been taking its toll every year over the country so much so that many a youthful prodigies have lost their careers and even their lives solely on account of this evil. All preventive measures have often failed and the malady has been evading cure unabatedly.

The Supreme Court, of late, has taken a very serious view of this social evil and has issued stern directions in asking the Government and all organs under the Government to stop the menace of ragging altogether with immediate effect. It has also issued stern action against non-observance of the Appellate Court instructions through the Government and the UGC.

IIITA, therefore, has undertaken positive measures to implement the Apex Court directions in this regard through an Office Memorandum No. IIITA/DIR/1358/2009 dated 10.07.2009 and multi-structured Committees have been constituted as under for its implementation:

a. Institute level Anti-ragging Committee

1	Dean, Students' Affairs	Chairman
2	Head of the Division	Member
3	Warden/Counselor of the concerned Hostel	Member
4	Registrar/Joint Registrar/Dy. Registrar/Assistant Registrar of Institute	Member
5	Legal Counsel	Member
6	Nominated Person	Member

b. Institute level Anti-ragging Squads

1	Dean, Students' Affairs	Chairman
2	Assistant Proctor (two by rotation)	Member
3	Security Officer	Member
4	One M.Tech/PhD Student Nominated	Member
5	Warden (nominated)	Member

c. Hostel Level Anti-ragging Squads

1	Warden of the Hostel	Chairman
2	Two Prefects	Member
3	One representative of Fresher's	Member

Wide publicity of these preventive measures have been made through notice boards, handouts and website of the Institute at all possible places on the Campus, hostels and other vulnerable points. The structured Committees are on the prowl all the times to deal with any inkling of the malady.

Prohibitions and Bans

The Institute is committed to ensure observance of Prohibitions and Bans promulgated under orders of the Supreme Court, Government and regulatory authorities under the Govt.

Accordingly, the following prohibitions and bans are strictly imposed in the Institute:

- Use of alcohol, tobacco and its products are totally banned in and around the Institute
- The entire area inside the Campuses of the Institute is a Smoking Free Zone. Therefore, smoking is strictly prohibited
- Use of mobiles in classrooms, labs, academic, administrative, cultural and extra-curricular activities, Seminars, Workshops and other official gatherings of the Institute is strictly prohibited under orders of the Parliament
- Any other prohibition or ban as may be promulgated under orders of the Competent Authority from time to time.

15

Sanctioned Posts, Recruitment & Vacancies

Sanctioned Posts, Recruitment and Vacancies

Teaching

Cadre Wise	Total Sanctioned Strength	Total Person in Position	Vacant Positions	Persons in Position					
				SC	ST	OBC	EWS	UR	PwD
Professor	18	14	4	0	0	0	0	14	0
Associate Professor	28	16	12	0	0	5	0	11	0
Assistant Professor	63	46	17	9	0	8	0	29	0

Filling up Vacancies during 2022-23

Category	SC	ST	OBC	EWS	Total
No. of Posts Filled	0	0	0	0	0

Non-Teaching

Group wise	Total Sanctioned Strength	Total Person in Position	Vacant Positions	Persons in Position					
				SC	ST	OBC	EWS	UR	PwD
Group A	19	13 + 02 (Medical Officers from Contract)	02 Promotional Posts + 02 Open Recruit Posts	01	-	02	-	11	01
Group B	44	43	01 Open Recruit Post	04	-	08	01	30	-
Group C	22	18	04 Promotional posts	02	-	03	01	12	-

Filling of Backlog vacancies during 2022-2023

Categories	SC	ST	OBC	PwD	EWS	Total
No. of Filled Posts	0	0	0	0	0	0