

Department of Applied Sciences

<https://as.iita.ac.in>



**Indian Institute of Information Technology Allahabad
Jhalwa, Devghat, Prayagraj 211015, India**

About the Department

Department of Applied Sciences (DAS) is an integral component of IIIT Allahabad's academic ecosystem. The DAS contributes two master programs, viz., Bioinformatics (BI) and Biomedical Engineering (BME). It also offers PhD programs in the above mentioned areas as well as in Computational Biology, Mathematics & Statistics and Physics. The DAS also contributes to various core courses running in other Departments. Further with to cater the current focus of the Government of India and its funding agencies on innovations in Bioinformatics, Data sciences, Telemedicine, Tele-health 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 (Ph.D) 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 department of AS doing research work in 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 Development
- Systems Modeling & Simulation
- Genomic Big Data Analytics
- Mathematical & Computational Physics
- Gravitational waves & Astronomy
- Statistical Physics

Bioinformatics & Biomedical Engineering



Amaresh Kumar Sahoo, PhD (IIT Guwahati)
Assistant Professor

Area of Research

Nanobiotechnology, Drug delivery, Biosensors



Amit Prabhakar, PhD (IIT Bombay)
Assistant Professor

Area of Research

Bio-MEMS, Microfluidics, Biosensors



Ashutosh Mishra, PhD (Old Dominion University, Norfolk)

Area of Research Bioelectrics, Biomechanics, Machine Learning (On long leave)



B S Sanjeev, PhD (IISc Bangalore)
Assistant Professor

Area of Research

Structural Biology, Parallel Computing, MD Simulations



Nidhi Mishra, PhD (University of Delhi)
Assistant Professor

Area of Research

Synthetic Medicinal Chemistry, Natural Product Chemistry



Pritish Kumar Varadwaj, PhD (IIIT Allahabad)
Associate Professor (HoD)

Area of Research

Big Data Analysis, Machine Learning, Genomics, Structural Biology



Ratan K Saha, PhD (Saha Institute of Nuclear Physics, Kolkata)
Assistant Professor

Area of Research

Ultrasonic/photoacoustic imaging and tissue characterization



Sangeeta Singh, PhD (Indian Veterinary Research Institute/MJP Rohilkhand University)
Assistant Professor

Area of Research

Biofilms, Antimicrobials, Stem cells



Sintu Kumar Samanta, PhD (IIT Kharagpur)
Assistant Professor

Area of Research

Multidrug resistance and post-translational modifications in mycobacteria



Tapobrata Lahiri, PhD (University of Kalyani)
Professor and Dean (Academic & Research)

Area of Research

Structural Proteomics, Biophysical and Biochemical Techniques



Krishna Misra, PhD (University of Delhi)
Honorary Professor & NASI Honorary Scientist

Area of Research

Biotechnology, Chemistry of Natural Products, Nucleic Acids

Mathematics



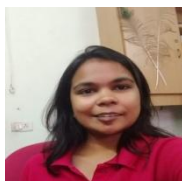
Abdullah Bin Abu Baker, PhD
(IIT Kanpur)
Assistant Professor

Area of Research Functional
Analysis



Anand Kumar Tiwari, PhD (IIT Patna)
Assistant Professor

Area of Research
Combinatorial Topology



Seema Kushwaha, PhD (IIT
Delhi)
Assistant Professor

Area of Research Number
Theory



Sumit Kumar Upadhyay, PhD (MNNIT
Allahabad)
Assistant Professor

Area of Research
Commutative Algebra



Savitri Joshi, PhD
(CU,Rajasthan)
Assistant Professor

Area of Research Survival
Analysis, Statistical Inference

Physics



Akhilesh Tiwari, PhD (CSJM
University, Kanpur; Blaise Pascal
University, France)
Associate Professor
Office: 5156 (CC-3); Extn: 2244;
User_ID: atiwari@iiita.ac.in

Area of Research
Photonic band gap materials,
Metamaterials, Modeling and
Simulation



Pramod Kumar, PhD (IIT
Bombay)
Associate Professor
Office: 4316 (CC-2); Extn: 2202;
User_ID: pkumar@iiita.ac.in

Area of Research
Experimental condensed matter



Srijit Bhattacharjee, PhD (Saha
Institute of Nuclear Physics, Kolkata)
Assistant Professor
Office: 5044 (CC-3); Extn: 2541;
User_ID: srijitb@iiita.ac.in

Area of Research
Quantum Field Theory, Gravitation,
Black Holes

1. List of Faculty Members

Si. No.	Faculty	Designation
1.	Prof. Krishna Mishra	Professor (Honorary)and NASI Honorary Scientist
2.	Prof. Tapobrata Lahiri	Professor
3.	Dr. Ashutosh Mishra	Associate Professor (On long leave)
4.	Dr. Pritish Varadwaj	Associate Professor
5.	Dr. Akhilesh Tiwari	Associate Professor
6.	Dr. Pramod Kumar	Associate Professor
7.	Dr. Amit Prabhakar	Asst. Professor
8.	Dr. Sangeeta Singh	Asst. Professor
9.	Dr. Nidhi Mishra	Asst. Professor
10.	Dr. Ratan Kumar Saha	Asst. Professor
11.	Dr. Sanjeev B.S.	Asst. Professor
12.	Dr. Sintu Kumar Samanta	Asst. Professor
13.	Dr. Abdullah Abu Bin Baker	Asst. Professor
14.	Dr. Sumit Kumar Upadhyay	Asst. Professor
15.	Dr. Srijit Bhattacharjee	Asst. Professor
16.	Dr. Anand Kumar Tiwari	Asst. Professor
17.	Dr. Amaresh Kumar Sahoo	Asst. Professor
18.	Dr. Seema Kushwaha	Asst. Professor
19.	Dr. Savitri Joshi	Asst. Professor

2. Ph.D. Students list with Supervisors:

Si. No.	PhD Students	Supervisor
1.	Manoj Kr. Pal	Dr. Tapobrata Lahiri
2.	Dheeraj Chitara	Dr. B. S. Sanjeev
3.	Rajnish Kumar	Dr. Tapobrata Lahiri
4.	Suprateek Chatterjee	Dr. B. S. Sanjeev
5.	Faizan Ahmad	Dr. Pramod Kumar
6.	Dinesh Kumar	Dr. Akhilesh Tiwari
7.	Imlimaong Aier	Dr. Pritish Varadwaj
8.	Mani Shankar Pandey	Dr. Sumit K Upadhyay
9.	Shivani Saini	Dr. Sanjai Singh
10.	Rahul Maurya	Dr. Abdullah Bin Abu Baker
11.	Anuj Kaushik	Dr. Ratan K Saha
12.	Rahul Semwal	Dr. Pritish Varadwaj
13.	Anju Sharma	Dr. Pritish Varadwaj
14.	Nimisha Roy	Dr. Amit Prabhakar
15.	Anirudh Singh	Dr. Sintu K Samanta Dr. Amaresh Kumar Sahoo
16.	Arushi Verma	Dr. Amresh K Sahoo Dr. Sintu K Samanta

17.	Vishal	Dr. Amaresh Kr Sahoo Dr Pritish Kr Varadwaj
18.	Mayank Kumar	Dr. Ashutosh Mishra
19.	Pankaj Warbal	Dr. Ratan K Saha
20.	Yogendra Singh	Dr. Anand K Tiwari
21.	Akhilesh Kumar Maurya	Dr. Nidhi Mishra
22.	Ankit Singh	Dr. Akhilesh Tiwari Dr. Pramod Kumar
23.	Shailesh Kumar	Dr. Srijit Bhattacharjee
24.	Sanjay Sharma	Dr. Pramod Kumar
25.	Vidhu Agrawal	Dr. Pritish Varadwaj Dr. Akhilesh Tiwari
26.	Richa Shukla	Dr. Krishna Mishra Dr. Sangeeta Singh
27.	Gyanendra Kumar Maurya	Dr. Akhilesh Tiwari Dr. Pramod Kumar
28.	Amar Dhawaj	Dr. Amit Prabhakar
29.	Princy Choudhary	Dr. Sangeeta Singh
30.	Anamika Mishra	Dr. Nidhi Mishra
31.	P M Shiva Priya	Dr. Sintu K Samanta Dr. Pritish Varadwaj
32.	Viswajit Mulpuru	Dr. Nidhi Mishra
33.	Shrey Dwivedi	Dr. Sangeeta Singh
34.	Shagun Varshney	Dr. Nidhi Mishra
35.	Unnati Soni	Prof. Krishna Misra Dr. Pritish Varadwaj
36.	Asmita Tripathi	Prof. T. Lahiri
37.	Subhodeep Sarkar	Dr. Srijit Bhattacharjee
38.	Shefali Vinod Ramteke	Dr. Pritish Varadwaj Dr. Vineet Tiwari
39.	Saurabh Shivalkar	Dr. Amaresh Kumar Sahoo
40.	Paawan Kumar	Dr. Pritish Varadwaj Dr. Suneel Yadav

3. Student strength in different program:

- 1) M.Tech.: 42
- 2) PhD: 40

Total: 82

4. Total Publications in Journals, projects special lectures: Last three years

Departmental publications in Journal: 103

Departmental projects: 13

- 07 (External Funded by DST, MeITy, DBT)
- 06 (IITA Seed Grant)

Departmental special lectures: 14 External Speakers**Departmental Patent/IPR Initiatives:**

Department of Applied Sciences has so far filed 10 Patent applications. Out of them, 2 US-Patents were granted and 2 Indian-patents were granted. The details of all filed/ granted patents are described as follows:

Sl. No.	Title of Filed / Published/ Granted PATENTS.	Awarding Country	Inventors / Authors
1.	Identification of Specific Class of Quasi-Periodic Signals From the Phase-Space Fractal Dimension of its Different Order-Features	Indian	Prof. T. Lahilri Upendra Kumar Arunava Das Roy Hrshikesh Mishra Subrata Sarkar M. D. Tiwari
2.	Capillary electrophoresis chip.	USA	Dr. Amit Prabhakar, Prof. Soumyo Mukherji
3.	Polymer Analysis Chip.	USA	Dr. Amit Prabhakar, Prof. Soumyo Mukherji
4.	A method and system for velocity measurement of a fluid in a channel.	Indian	Dr. Amit Prabhakar, Prof. Soumyo Mukherji, Sonali Tripathy
5.	Micro device for separating blood plasma from whole human blood and method for making the same.	Indian	Dr. Amit Prabhakar, Prof. Amit Agrawal, Y.V. Balavarun Kumar
6.	A cost effective and disposable micropump for lab on chip applications.	Indian	Dr. Amit Prabhakar, Prof. Amit Agrawal, B.S. Bharat.
7.	A Microfluidic Device with Immobilized Nano-Particles and Coupled Ultraviolet Light Source, for Water Disinfection	Indian	Dr. Amit Prabhakar, Mehul Agrawal, Neha Mishra, Dr. Deepti Verma, Dr. Vishnu Agrawal
8.	A Portable Corona-Discharge System with Custom Made Electrodes, for PDMS Hydrophilic Treatment, and Bonding for Microfluidic Chip Fabrication.	Indian	Dr. Amit Prabhakar, Amar Dhawaj, Neha Mishra, Rohit Vishwakarma
9.	Apparatuses and Methods for Separation of Suspended Particles Present in Liquid	Indian	Dr. Amit Prabhakar, Praveen Kumar, Neha Mishra Ankur Jaiswar Dr. Deepti Verma,
10.	Cost-effective micro impedance pump for lab on chip applications.	Indian	Dr. Amit Prabhakar, Amar Dhawaj
11.	Optical wave guide based temperature sensor for diverse microfluidic application.	Indian	Dr. Amit Prabhakar, Neha Mishra, Dr. Deepti Verma,
12.	Orally administered osmotic pump for drug delivery.	Indian	Dr. Amit Prabhakar, Komal Sharma

5. Total Conferences conducted (Last three years): 02

1. International Conference BSB2016- March 3rd-5th, 2016
2. International Conference BSB2018- October 26th-30th, 2018

6. Total Workshops conducted (Last three years): 07

1. Workshop on “Weather Data Modeling and Simulation” for IT professionals on 5 November 2016
2. Workshop on Systems Biology, RNA Seq Technology-March 2016
3. Workshop on Systems Biology, Chip-Seq Technology- October 2018
4. Workshop on Virtual Screening and Molecular Dynamics- March 2018
5. Summer Camp (Dronathon)- 1st to 10th June 2018
6. Workshop on “(ExpEYES) Interfacing Physics Experiments to Convert your PC into Physics Laboratory”, 21-22 April, 2018
7. Conducted 10 Days MHRD Global Initiates of Academic Networks (GIAN) Course on “Numerical Methods on Transport Phenomenon (NMTP)” March 26th – 4th April, 2018, with Foreign Faculty Prof Jean-Pierre Fontaine, UBP, France.

7. H-index of the Department: Total: 105, Average : 17

8. Department citations: 2624

9. Achievements of students (UG, PG and Ph.D.):

- Four NewGen IEDC (*New Generation Innovation and Entrepreneurship Development Centre*) projects under the DST:-[Team: *Nimisha Roy, Amar Dhawaj, Ankur Jaiswar*]
- An Idea “*A Portable Corona-Discharge System with Custom Made Electrodes, for PDMS Hydrophilic treatment, & Bonding for Microfluidic Chip Fabrication*” selected by *Institution Innovation Council, IIIT-A* to present at POC(Proof-of-concept) exhibition on 10th August, 2019 organized by MHRD’s Innovation Cell & AICTE. [Team: *Amar Dhawaj, Ankur Jaiswar, Nimisha Roy*]
- Won first prize for making “*Portable pulse plethysmogram device for heart rate monitoring*” in Project Exhibition organized by IEEE UP branch in IIIT-A. [Team: *Amar Dhawaj, Praveen Kumar, Diwakar Badal*]
- *Neha Mishra* received “Emerging Researcher award” in category of filled patents on National Science Day, 2019 held at IIIT-Allahabad.
- *Amar Dhawaj* received “Emerging Researcher award” in category of filled patents on National Science Day, 2019 held at IIIT-Allahabad.
- Team comprises of “*Ankur Jaiswar & Ishita Bansal*” won first prize in the Business Model Canvas competition held on 30 November, 2019 by IIC, IIIT-A.

- Team comprises of “Amar Dhvaj, Prashant Nayak & Vijay Gugloth Nayak” won third prize in the Business Model Canvas competition held on 30 November, 2019 by IIIC, IIIT-A.
- Faizan Ahmed was awarded for ‘Best poster award’ in Annual Research Day program on 6 March 2019 at IIIT Allahabad, UP, India, and awarded a cash prize of Rs.3000/-.
- Dinesh Kumar was selected for ‘Best poster award’ in Annual Research Day program on 24 March 2018 at IIIT Allahabad, UP, India, and awarded a cash prize of Rs.4000/-.
- Dinesh Kumar was selected for ‘Best poster award’ in XXXII Annual IAPT Convention and National Symposium on Recent Trends in Physics at Different Scale, October 29-31, 2017, organized by Gurukul Kangari Vishwavidyalaya, Haridwar – 249404, Uttarakhand, and awarded a cash prize of Rs.1000/-.
- Rashmi Singh was selected for Best Poster Award in International Conference on Magnetic Materials and Applications (ICMAGMA-2017), Hyderabad, India
- Utkarsh Raj was selected for ‘Young Research Scholarship’ for attending the 15th International Conference on Healthcare & Life-Science Research (ICHLSR), 2017, Kuala Lumpur, Malaysia.
- Utkarsh Raj and Dr. Pritish Varadwaj awarded with the ‘First Rank Award’ for being amongst the Authors of Excellent Papers in 2016 in the Journal of Interdisciplinary Sciences: Computational Life Sciences by Springer Nature.
- Dr. Utkarsh bagged ‘Young Scientist Award’ in ICET-2016 which was jointly organized by Biotechnology Society of Nepal and Biologix Research and Innovation Centre Private Limited, India.
- Ph.D. students, Paawan Kumar and Shefali Vinod Ramteke, among the six national winners in Boeing University Innovation Leadership Development Program (BUILD) 2019. Paawan and Shefali were awarded a cash prize of 10,000 US Dollars by the President and CEO of Boeing India, Mr. Salil Gupte.
- Ph.D. students, Paawan Kumar and Shefali Vinod Ramteke, among Top 34 Finalists in Future Agro Challenge Global Championship 2019, powered by the FAC Global Agripreneur Summit held in Greece from 7-11 September 2019 where the students represented India on the global platform. The event was inaugurated by the Prime Minister of Greece, Mr. Kyriakos Mitsotakis.
- Ph.D. students, Paawan Kumar and Shefali Vinod Ramteke, among top 31 semi-finalists in She Loves Tech 2019 The National Grand Challenge, which is the World’s Largest Startup Competition focused on women and technology, powered by Kerala Startup Mission.
- Ph.D. students, Paawan Kumar and Shefali Vinod Ramteke, recognized on an international platform - Annual General Meeting 2019 by Indo-

Canadian Business Chamber (ICBC), by honorable CEO of ICBC, Mrs. Nadira Hamid for commitment towards adopting the Inclusion Quotient Pledge that fosters gender-inclusive business practices. Interaction with eminent panelists, the ICBC network, in partnership with Air Canada, Trilegal, Invest India, Engendered, Nangia & Co (Andersen Global).

- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Top 10 National Winners in Canada-India Acceleration Program 2018, powered by All India Council of Technical Education, Govt. of India and Carleton University, in association with Canada-India Centre for Excellence, Govt. of Canada.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, Top 10 Winners in QUEST Accelerator Program 2018, powered by ZONE Startups, Bombay Stock Exchange, AIC-Mahamana Institute of Innovation and Entrepreneurship, Atal Innovation Mission, NITI Aayog.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, invited as speakers among various recognized panel from Canada and India in Innovation Startup Ecosystem at Annual National Convention 2018, powered by Indo-Canadian Business Chamber and Invest India on 27th November 2018 at Hyatt Regency, New Delhi.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, Alumni in Global GERS Program of Carleton University and Canada-India Centre for Excellence.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, Fellow in WEE Fellowship Program 2018 at SINE IIT Bombay.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Hello Tomorrow's Top 500 deeptech startups worldwide in the Aeronautics track from over 4500 applications from 119 countries.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Top 25 in USIBC/WE Hub Women Startup Pitch Competition for 43rd Annual Meeting of India Ideas Summit held at Mumbai, India.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among finalists in Pitch to MOVE, a Global Mobility Summit, powered by NITI Aayog, INVEST India and SIAM, Government of India held at India Habitat Center, New Delhi held on 4th September 2018. The team was invited to the Global Mobility Summit (MOVE Summit) held at Vigyan Bhawan, New Delhi held from 7th to 8th September 2018. The team interacted with the mobility event's major speakers and participants include the Prime Minister of India and dignitaries.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among top 12 finalists in AcceliCITY Smart City startup 2018 competition and received \$25,000 worth of marketing support by Bee smart city partner of Leading Cities.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, awarded as Top 15 in the Canada India Acceleration Program 2018 All Over India

which was held from 25-26th June, 2018 at AICTE Headquarters, New Delhi.

- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, awarded in the most "Innovative Startup" category by Women Planet Foundation's Planet Pride Awards, Gujarat.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among top 80 all around the world for "K-Startup Grand Challenge 2018" which is organized by Ministry of SME and Startups, Republic of Korea, KIC Europe, NIPA.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among top 50 startups selected from all over India by Berkley Quantela Accelerator as a Delegate/Exhibitor for their startup at Barcelona Smart City Expo India 2019 held at JECC, Sitapura, Rajasthan.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Top 100 and pitched in Airport Authority of India, for Competition for Startups – Initiative for Airports, powered by Government of India at Aviation Training Academy, New Delhi.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, semi-finalists in World Economic Forum 12th Annual Meeting of the New Champions to be held in Tianjin, People's Republic of China from 18th-20th The September 2018.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Top 31 finalists all over India selected for KIIT-TBI IM2 Accelerator Program, powered by Carleton University, Canada and Department of Science & Technology, Government of India.
- As part of the joint collaboration approach between AIM-NITI Aayog and AICTE to promote, engage and support startup ecosystem in India, M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, were nominated to participate and exhibit in 2nd Vibrant Gujarat Start-Up and Technology Summit 2018 scheduled on 11, 12 and 13 October 2018 at Exhibition Centre, Gandhinagar, Gujarat.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, were invited to the Festival of Innovation and Entrepreneurship (FINE) 2018 for demonstration of drone prototype to the honourable President and First Lady at President House, New Delhi.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Top 40 finalists in India Innovation Growth Program 2.0 (2018) powered by DST, Lockheed Martin and Tata Trusts.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among finalists in INNOPRENEURS 2018 contest powered by Lemon Ideas Outreach program.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Top 15 teams in POWERED Accelerator Program 2018, launched by Shell Foundation, the United Kingdom (UK) Government, DST (Government of

India), Microsoft, GTU Innovation Council and Zone Startups India (Founding Partners).

- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Top 10 in QUEST Program in India, invited by Bombay Stock Exchange to interact with the Mr. Piyush Goyal, Cabinet Minister of Railway and Coal, and Mr. Ashish Kumar Chauhan, MD & CEO of Bombay Stock Exchange and Mr. Neelesh Shah, MD of Kotak in Varanasi.

10. Incubation

1. Droaeordy Private Limited, startup by founders Paawan Kumar and Shefali Vinod Ramteke, incubated by IIIT Allahabad Info-Communication Incubation Centre (IIIC), powered by Ministry of IT and Electronics, mentored by Dr. Pritish Varadwaj and Dr. Suneel Yadav.
2. Pankaj Kumar has got the Incubation project and incubated a company named - SYNAPSO PVT LTD, and he is the CEO of the company. He has developed few Healthcare products, which are under trials.

Other Start-Up Initiatives/ New-Gen IEDC

1. A Portable Corona-Discharge System with Custom Made Electrodes for PDMS Hydrophilic treatment and Bonding for Microfluidic Chip Fabrication. [Based on Patent Filed: Indian Patent Application Number: 201811028599; Date of Filing: 30/07/2018]
2. Cost Effective Micro Impedance Pump For Potential Application in the Microfluidics & Bio-Medical Domain. [Based on Patent Filed: Indian Patent Application Number: 201911039486. Date of Filing: 30/09/2019]
3. Design and Implementation on Advanced 3D Printed Human-Prosthetics. Generation of IPR is in progress, as drafting process for filing patent application is under process.
4. Design and development of cost-effective e-bikes. Generation of IPR is in progress, as drafting process for filing patent application is under process.

11. Consultancy

1. DNAXpert- For Smarter & intelligent Kidney function Analysis Kit by Pritish Kumar Varadwaj.
2. Indegene Pvt. Ltd. – For development of automated summarization tool for Medico-Clinical Professionals.

12. Outreach Activities

Science Talk and Lab visit to About 250 school children sponsored by NASI Summer programme each year for 2016,2017 and 2018.

13. Laboratory

Teaching

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

Research

Bio-MEMs & Nanotechnology Laboratory
Biomedical Informatics Laboratory
System Biology laboratory
Biomedical Imaging Laboratory
Spintronic and Magnetic materials
Photonic Crystals and Meta Materials

Departmental Statistics (IRINS)



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