



Annual Report 2018-2019



**Indian Institute of Information Technology
Allahabad**

Annual Report 2018-19



Indian Institute of Information Technology Allahabad



Gandhi Ji's View on Education

Character cannot be built with mortar and stone. It cannot be built by hands other than your own. The Principal and the Professor cannot give you character from the pages of books. Character building comes from their very lives and really speaking, it must come from within yourselves.

Put all your knowledge, learning and scholarship in one scale and truth and purity in the other and the latter will by far outweigh the other. The miasma of moral impurity has today spread among our school going children and like a hidden epidemic is working havoc among them. All your scholarship, all your study of the scriptures will be in vain if you fail to translate their teachings into your daily life.....

[Source: <https://www.gandhiashramsevagram.org/>]

M K Gandhi





Patron	:	Prof. P. Nagabhushan Director, IIIT Allahabad
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INTRODUCTION

1.1 THE CHAIRMAN AND DIRECTOR'S PROFILE



Hon'ble Prof. P. Nagabhushan

**Chairman (Board of Governors) and Director,
IIIT Allahabad**

Prof. P. Nagabhushan is the Director of IIIT Allahabad and a Professor in Computer Science and Engineering at the University of Mysore, Mysore. He has more than three and a half decades of teaching experience. Prior to joining IIIT-A as the Director, he had served several administrative positions such as the Chief Nodal Officer, Choice Based Credit Pattern Continuous Assessment Education System, University of Mysore; Director, Planning, Monitoring and Evaluation Board; Dean, Faculty of Science and Technology; Director, Center for Information Science and Technology at University of Mysore, India. He was also distinguished Professor and Chairman at Amrita Vishwavidyapeetam, Amrita University, Coimbatore; Director, Bangalore Educational Society for Technology Advancement and Research and Principal, Bangalore Technological Institute, Bangalore. He is actively associated with various academic, statutory and professional bodies. He is the member of academic councils and Board of Studies of several universities. He has been serving as an active member in the Technical Advisory committee at the Indian Statistical Institute, Kolkata, School Board member of the Central University of Hyderabad and Academic council member of Islamic University of Science and Technology, Awantipora, Jammu & Kashmir. He is also a visiting Professor and acting as subject expert in many Universities and Institutes. There are various high profile committees of AICTE, UGC, DST, PSC, NBA, ISRO, DRDO, RECs (now NITs) where Prof. Nagabhushan was an active member. Prof. Nagabhushan has worked as an Investigator in several major funded projects.

He has also rendered his services in a number of foreign Institutions such as invited Professor at University of Dauphine, Paris, France; Visiting Professor, Tokyo Denki University, Japan; Exchange Professor, Saginaw Valley State University, USA; Visiting Scientist, INRIA, Rocquencourt, France; Invited Expert, Michigan State University, USA; Invited Expert for assessing programs of Computer Science and Technology, University of Medical Sciences and Technology, Sudan; Team member of Bilateral Indo-Russia Workshop, University of Moscow, Russia. He is a Fellow of the Institution of Electronics and Telecommunication Engineering and a Fellow of the Institution of Engineers. He was offered the prestigious Visiting Professorship award of ISTE. He is also awarded ICCR 2008 Outstanding Academician and Researcher- Award in appreciation of life time contribution to the field of Computer Science and Engineering; ICICOT 07 Outstanding Academician Award; IEEE- ICSIP-2006 Award in appreciation of life time contribution to the field of Signal and Image Processing. Recently he has been awarded Lifetime Achievement Award RTIP2R-2016 for Outstanding Achievement, Global Leadership and Dedicated Service to the field of Image Processing and Pattern Recognition.

On academic front, he has successfully guided 28 PhDs, and has authored more than 500 research papers out of which more than 100 papers are DBLP indexed. The citation index of 2253 with H-index of 24 and i10 index of 63 reflects his academic accomplishments.



1.2. Director's Report 2018-19

Respected Padma Bhushan awardee distinguished Prof. V. Rajaraman, Honorable invitees, Members of the Governing Council and Senate, the great expectation of the Universe - the young graduands, all our colleagues, media friends, parents of the graduands and well wishers.

Good afternoon to all of you and a hearty welcome to all of you to the 14th Convocation of the Indian Institute of Information Technology Allahabad, Prayagraj. This is a special convocation for us, because this is a rejoiceful celebration for us when the Institute is stepping into twenties since its inception in 1999. This will be a memorable festival during the eventful period of Beyond Twenty by 2020 of this Institute which has originated as a member of the first batch in the family of IIITs.

At the outset, it is my pleasant responsibility to place on record, the quality lead provided by our noble Chairman of the Board of Governors Sri. Ravi Kant, who just in the recent past completed his tenure, and therefore we are missing his august presence now. Hence I am enacting both the roles of officiating Chairman and the Director of the Institute.

Very delightful aspect of this Convocation is the presence of an illuminary in the field of Computer Science and Information Technology. Padma Bhushan awardee Prof. V. Rajaraman happens to be the iconic figure being the founder father who seeded the idea of Computer Science and Engineering program in India for the first time at the Indian Institute of Technology Kanpur. Subsequently moving from IIT Kanpur to the Indian Institute of Science Bangalore he built a state of the art Centre for Advanced Education and Research in Super Computing. The books authored by him were the first set of books from India on Computer Science and Engineering.

No one of us would be able to describe the multidimensional personality of Prof. V. Rajaraman, as befittingly as was done by none other than the then Director of IIT Kanpur, Prof. V. Sampath, who mesmerized the entire audience in one the functions of the Computer Society of India. We are thankful to Madam Dharma Rajaraman, who supported us in making Prof. V. Rajaraman to accept the invitation. We are blessed that both of them are with us today. Luckiest are the passing out candidates, who are in this auditorium as they are being blessed by the great Stalwart, Prof. V. Rajaraman.

I am delighted to share the fact that all the young graduands, far earlier to this day of Convocation, have already been placed in the companies of their dream choices and thus all of them have already become the brand ambassadors of IIIT Allahabad. While we are so happy and proud of them on their very successful accomplishments, personally somehow I still feel that such eminent and brilliant scholars, in bigger mass, could have thought of pursuing higher studies and could have been the contributors to the growth of knowledge in Computer Science and Information Technology. I pray that my wish comes true sooner.

Today we are witnessing 240 and 77 youths graduating respectively with Bachelor's degree in Information Technology and Electronics and Communication Engineering, 173 number of candidates walking out with Master's degrees in various disciplines of Information Technology, Electronics, Bioinformatics, Biomedical Engineering and Management, and 16 candidates are receiving Doctoral degrees from IIIT Allahabad. Of the total tally, 94 are young ladies and 412 are young men in whose safe hands the future of India and the prosperity of the world are entrusted.

The passing out graduands were all extraordinarily good during their stay, they were all round performers, expert coders, rose to greater heights in several hackathon events, drew the attention during sprouting stage itself and also remained equally significant in several off-classroom activities – Sports, Music, Dramatics, Event Management and Event Performances. They have resonated to the pulse and for the cause of the society in several ways, including participating in a noble job of educating the downtrodden children.

With such promising future generation of technocrats of great India, I like to share what I read from an interesting book ‘Reflections in Time’ by Satya Paul. The following lines are from DYKE as presented in that book. I am reading them loud, so that I also would hear the lines along with you and try to internalize the expectations hoped there:

“Are you willing –

To forget: What you have done for other people, and to remember what other people have done for you.

Are you willing -

To ignore: What the world owes you, and to think what you owe the world.

Are you willing -

To put: Your rights in the background, and your duties in the middle distance, and your chances to do a little more than your duty in the foreground.

Are you willing -

To see : that your fellow men are just as real as you are, and try to look behind their faces into their hearts hungry for joy.

Are you willing –

To own : that probably the only good reason for your existence is not what you are going to get out of life, but what you are going to give to life.

Are you willing –

To close: your book of complaints against the management of the Universe, and to look around for a place where you can sow a few seeds of happiness.

Are you willing –

To do: these things even for a day ”

I am very sure the birds which are ready to fly off on this day are more than willing to do all of them.

We also posed some similar targets upon us at the Institute. IIIT Allahabad also desires to accomplish beyond. We have set a goal to improve the Gross Qualification Index of the Engineers coming out of India. In this direction our first step happened to be signing of a historic Memorandum of Understanding with Indian Space Research Organisation (ISRO). This Memorandum of Understanding implies that we desire to make the Scientists and Engineers employed in ISRO Pan India, realize that the Government of India has invested in ISRO so much, that the state of the art infrastructure created across India should also be utilized in creating the knowledge and new technology for the future, by enrolling themselves for research studies leading to PhD, M.Tech and MBA at IIIT Allahabad. This enables IIIT Allahabad to virtually append ISRO facilities and state of the art laboratories available over there as extended wings of IIIT Allahabad, and participate in the noble cause of understanding and reacting to several live problems, issues and challenges. When scientists and engineers from ISRO will be visiting our campus, our young students will get ample opportunities to brush their shoulders with them and thus would get several opportunities to take up real live challenges. The MoU also provides internship, project and research avenues for our B.Tech, M.Tech and

Research Scholars. We are proud that this is the first MOU of its type in India. Obviously the inspiration for such an idea, has emanated from the learning profile and nobility that the young graduands have displayed during their stay in the campus.

The other wonderful accomplishment of IIITA is that it has successfully introduced a new learning vertical entitled B.Tech. Information Technology – Business Informatics. We derive pride in letting you all know that all seats in the maiden batch have got filled up by top rankers.

Dear graduands, you are flying out, leaving your memories with us which we shall cherish, with which we continue to live here. At this festive event of your take off, I would like to quote what Justice Deepak Mishra, Hon'ble Former Chief Justice of India had said in one of his Convocation address.

“I would suggest that all of you remain content while having great ambitions.

I would further suggest that never be swept away by the hurry of climbing up the ladder of success. Success shall come gradually with effort and not by ambition.

You should bear in mind that ambition alone with desire is an enemy but ambition with necessary hard work and acceptance of limitation is a friend. Make ambition a friend ”

Young friends, make ambition a friend, not a cause for stress in life. Live the life. Enjoy, experiencing every moment in your life. After all life is the passage through several moments. Let us understand that life is for a meaningful living; And while living ‘Let us act on conviction and certainly; not on provocation’.

All the best and thank you very much!

Prof. P. Nagabhushan
Director

1.3 The Charter & Mission

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 set out to create knowledge-based resources in regional languages of India.

1.4 The Governance

GOVERNING BODIES OF THE INSTITUTE

The Governing Bodies of the Institute comprise the following:

- IIIT Act
- The Board of Governors
- The Senate
- The Finance Committee
- The Building & Works Committee

In short, the functions of these Governing Bodies are given below:

IIIT Act 2014

With effect from 5th January, 2015, IIITs Act 2014 has been come into force. The provisions of the said Act are being implemented. Refer page no. 153 in Annexure.

The Board of Governors (BoG)

The Board is the principal authority responsible for academic, financial and administrative matters and has the ultimate responsibility for long term policy formulation, planning and development for growth and governance of the Institute. The Board has the power to constitute other subordinate and subsidiary groups/committees, as may be required, to discharge its functions.

The Senate

The Senate is the principal academic body of the Institute and is responsible for the maintenance of standards of education, teaching, evaluation, research & consultancy, training, inter-departmental co-ordination, examinations and tests within the Institute and shall exercise such other powers and perform such other duties and functions as may be prescribed or conferred upon it by the Rules and Bye-laws. It has the responsibility to lay down policy guidelines and the directions for academic growth and development of the Institute. Other powers and functions are given in detail in the MoA & Rules. Refer page no. 154 in Annexure.

The Finance Committee (F.C.)

The Finance Committee of the Institute has the responsibility to look after resource mobilization, control of expenditure, etc. It should also stimulate resource generation from sources other than Government funding such as sponsored projects, research and consultancy and promote Industry Institute Interaction. Refer page no. 155 in Annexure.

The Building & Works Committee (B.W.C.)

1. It is responsible under the direction of the Board for construction of all major capital works after securing from the Board the necessary administrative approval and financial sanction.
2. It shall have the power to give the necessary administrative approval and financial sanction for all minor works and works pertaining to maintenance and repairs, within the budget placed at the disposal of the Institute for the purpose.
3. It shall cause to be prepared estimates of cost of building and other capital work, minor works, repair, maintenance and the like.
4. The Committee shall perform such other functions in the matter of construction of building and development of land for the institute as the Board may entrust to it from time to time.

Refer page no. 155 in Annexure.

ADMINISTRATION



2. The Administration

2.1 Academic Departments



Information Technology



Electronics and Communication Engineering



Applied Sciences



Management Studies

These departments plan their academic activities under the guidance and direction of Dean (Academics and Research) under administrative & academic control of the Senate through the Institutional Head, i.e. the Director of the Institute. Their growth plans and developmental activities are governed by the above authorities to ensure that the academic activities are planned and scheduled, keeping in view and incorporating the latest developments in their various fields of academics.

2.2 Deans/HoDs

Prof. U. S. Tiwary, Dean (Human Affairs)
Prof. T. Lahiri, Dean (Academic & Research)
Prof. Shekhar Verma, Dean (Infrastructure, Planning & Resources Management)
Prof Anupam (Dean Technology and Promotional Affair)
Prof. G.C. Nandi, Advisor (Quality, Assessment and Assurance)
Dr. Manish Goswami, Associate Dean (Admission, Assessment & Award)
Dr. Pritish Kumar Varadwaj, Associate Dean (Planning and Monitoring)
Dr. Vijay Kumar Chaurasia, Associate Dean (Student Affairs) & Estate Officer
Dr. Vrijenda Singh, HoD (IT)
Dr. Rajat Kumar Singh, HoD (ECE)
Dr. Pritish Varadwaj, HoD (Applied Sciences)
Dr. Vijaishri Tewari, HoD (Management Studies)

2.3 Council of Wardens

Dr. Sitangshu Bhattacharya, (Warden Boys Hostel -I)
Dr. Manish Kumar, Chairman: Council of Warden, Estate Officer, RSA-1 and 2
Dr. Sintu Kumar Samanta, (Warden Boys Hostel -III)
Dr. Sunny Sharma + Dr. Amresh Kumar Sahoo (Warden Boys Hostel - V)
Dr. Pooja Mishra, (Girls Hostel -II)
Dr. Sangeeta Singh, (Warden Girls Hostel -I)
Dr. Sangeeta Singh & Dr. Pooja Mishra, (Warden Girls Hostel -III)
Dr. Ranjit Singh, (Warden Boys Hostel -IV)
Dr. Anand Kumar Tiwari, (Warden Boys Hostel -II)

2.4 Proctorial Board

Dr. Krishna Pratap Singh, Chief Proctor
Dr. Rekha Verma, Asstt. Proctor



2.5 Special Functionaries

Prof. Anupam, Chairman, Prurchase Committee (AS & MS Dept.)
Dr. Sonali Agarwal, Campus Internship, Workshops, Credit Transfer Courses / Short Term Courses
Dr. Bibhas Ghoshal, Faculty In-charge: Transport
Dr. Rahul Kala, Faculty In-charge: Incubation Center
Dr. Shailendra Kumar, Faculty In-charge: Library & Co-incharge IPR Cell
Prof. Krishna Mishra, Chairperson: Prevention of Harassment of Women at Workplace
Dr. Madhvendra Mishra, Chairman: Grievance Cell
Dr. Mithilesh Mishra, Convenor: ERP & Automation
Dr. Triloki Pant, Faculty In-charge: PRAYAS
Dr. Amit Prabhakar, Faculty In-charge: IPR Cell
Dr. Shashikant Rai, Faculty In-charge: Security
Dr. K. P. Singh, Chairman Purchase Committee (IT & ECE Dept.)
Dr. Shailendra Kumar, Chairman (Central Purchase Committee)
Dr. Satish Kumar Singh, Faculty In-charge: SPARC, GIAN & Institutional Ranking
Dr. Vineet Tiwari, Faculty In-charge: Training and Placement
Dr. Anurika Vaish, Chairman: Campus Upkeep and Extension & Outreach Activities
Dr. S. Venkatesan, Faculty In-charge: Network & Maintenance
Prof. Shekhar Verma, Faculty In-charge: PRC
Dr. Suneel Yadav, Faculty In-charge: Sports

2.6 Officers

Prof. Shirshu Varma, Registrar (Acting) & Estate Officer
Dr. Asheesh Kumaar, Joint Registrar (AAA)
Dr. Seema Shah, Joint Registrar (Store)
Dr. Pavan Kumar Saini, Joint Registrar (Estt.)
Mr. O.P. Srivastava, Deputy Registrar (F&A)
Mr. Rajendra Kumar Jena, Deputy Registrar (Library)
Dr. K.K. Tiwari, Assistant Registrar (SA)
Mr. R. Banerjee, Assistant Registrar (Purchase)
Mr. Niranjana Kumar, Assistant Registrar (AAA)
Mr. Vivek Nagar, Assistant Registrar (Finance)

3. The Academics

3.1 Academic Programme and Intake of the Students

S. No.	Name of Programme	2018	
		Approved Intake (including DASA/ NRI/ SN/ SAARC)	Total Admission including DASA
1	B. Tech (IT)	200+5*	198+5*
2	B. Tech (ECE)	100+5*	89+0*
3	B. Tech (IT-Business Informatics)	NA	NA
4	M. Tech - BI	M.Tech. BI Approved Intake: 16	8
	M. Tech - BI Integrated PhD		
	M. Tech. - IS	M.Tech. IT Approved Intake: 100	86
	M. Tech. - IS Integrated PhD		
	M. Tech - SE		
	M. Tech - SE Integrated PhD		
	M. Tech - HCI		
	M. Tech - HCI Integrated PhD		
	M. Tech - RO		
	M. Tech - RO Integrated PhD		
	M. Tech - WCE		
	M. Tech - WCE Integrated PhD		
	M. Tech - CLIS		
	M. Tech - CLIS Integrated PhD		
5	M. Tech - MI	M.Tech (ECE) Approved Intake: 24	13
	M. Tech - MI Integrated PhD		
6	MBA (IT)/MBA	76	17
	MBA (IT) Integrated PhD	NA	NA
7	5 Years Integrated M. Tech (Biomedical Engg.)	NA	NA
8	5 Years Dual degree B. Tech (IT) & M.Tech (IT) Spl. (Software Engineering)	NA	NA
9	5 Years Dual degree B. Tech (IT) & M.Tech (IT) Spl. (Wireless Communication Engineering)	NA	NA
10	5 Years Dual degree B. Tech (IT) & M.Tech (IT) Spl. (Intelligent Systems)	NA	NA
11	5 Years Dual degree B. Tech (IT) & M.Tech (IT) Spl. (Robotics)	NA	NA
12	5 Years Dual degree B. Tech (IT) & M.Tech (IT) Spl. (Human Computer Interaction)	NA	NA
13	5 Years Dual degree B. Tech (IT) & M.Tech (IT) Spl. (Bio Informatics)	NA	NA
14	5 Years Dual degree B. Tech (ECE) & M.Tech (EE) Spl. (Micro Electronics)	NA	NA
15	5 Years Dual degree B. Tech (IT) & M.Tech (IT) Spl. Cyber Law & Information Security)	NA	NA
16	5 Years Dual degree B. Tech (ECE) & MBA (IT)	NA	NA
17	5 Years Dual degree B. Tech (IT) & MBA (IT)	NA	NA

*Admission under DASA/NRI/SAARK Category



THE FACULTY UPDATE

4.1 Faculty Profile



Prof. G.C. Nandi

Department & Designation:

Information Technology, Senior most Professor (HAG)

Teaching/Research/Industry Experience:

Teaching/Research: 33 years Industry: 01 year Total:34 years

Research papers published in journals:

1. “Feature Extraction and Selection for Emotion Recognition from Electrodermal Activity” in IEEE Transactions on Affective Computing published on 26th February, 2019, DOI: 10.1109/TAFFC.2019.2901673, with Shukla Jainendra, Barreda-Ángeles Miguel and Oliver Joan (SCI- impact factor -6.288).
2. Robust Real Time Emotion Detection System using CNN Architecture, with Shruti Jaiswal, International Journal of Neural Computing and Applications (SCI- impact factor 4.664)

Average Impact Factor of all publications and name of the major journal in which publication are made: 5.476

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

- Emotion Recognition with reduced parameters and computation, with my student Shruti Jaiswal, WiCV CVPR-2019 (one of the most prestigious Conference in the area of Computer Vision and Pattern Recognition in the world), June 16-19, 2019, Long Beach, CA, USA (Poster)
- Deep Learning based command pointing direction estimation using a single RGB Camera Number , Pratyush Mishra, Shruti Jaiswal and G.C. Nandi, 5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering, DOI: 10.1109/UPCON.2018.8596762.
- Intent-based Object Grasping by a Robot using Deep Learning , Faheem Hassan Zunjani, Souvik Sen, Himanshu Shekhar, Aditya Powale, Debadutta Godnaik, G. C. Nandi, DOI: 10.13140/RG.2.2.12758.50242.
- Automated Industrial Quality Control of Pipe Stacks using Computer Vision, with Sayantan Chatterjee and Bidyut B Chowdhuri, CVIP-2019, 27-29 Sept., 2019, Jaipur
- Deep Learning Based Intelligent Robot Grasping Strategy with my students Prateek Agarwal, Preshit Gupta, Aryaan Singh, 2018 IEEE 14th International Conference on Control and Automation (ICCA), pp.1064-1069, June 12-15, 2018. Anchorage, Alaska, USA.

Seminars and Invited Talk Presented:

1. Key note speaker on International Conferences on Artificial Intelligence, Barcelona May 7th, 2019 & Madrid 8th, 2019
2. Delivered Expert Lecture on “Machine Intelligence and Robot Vision” during the Faculty Development Program (FDP) on Machine Learning and Computer Vision(MLCV-2018) Sponsored by WB-TEQIP III, KNIT, Sultanpur, UP, India, 9th April -13th April, 2018.
3. Invited by the URV University, Tarragona, Spain to act as a Jury for a doctoral thesis examination committee, May 21-25, 2018.
4. Attended 14th IEEE International Conference on Control and Automation (ICCA-2018) conducted during June 12-15, 2018 at Anchorage, Alaska, USA, presented a paper and chaired a session on Robotics-II.



5. Delivered a Keynote Address on “Influence of Machine Intelligence on solving classical Robotics Problems”, in IEEE UPCONN-2018 on November 4th at MMM University, Gorakhpur, India.
6. Delivered a keynote address in the “2nd International Conference on Advanced Computing and Software Engineering (ICACSE-2019)” on February 09, 2019, KNIT Sultanpur, India.
7. Participated as a panel speaker in STS forum 4th INDIA – JAPAN Workshop in Delhi on Wednesday, February 27 2019.
8. Delivered a Keynote address on Friday, 5th April, 2019 on “Machine Learning Applications in Robotics” in IIT, Kanpur, The Robotics Society of India and IEEE RAS sponsored Winter School on Robotics and Autonomous Systems.
9. Delivered a keynote lecture on May 7, 2019 at Barcelona, Spain on “Robotics in the Era of Machine Learning” during International Conference on Artificial Intelligence, organized during May 7th, 2019 at Barcelona and May 8th, 2019 at Madrid, Spain.
10. Delivered keynote lecture and took part in panel discussion on May 8th, 2019 at Madrid, Spain, on Civil Law Rules on Robotics under the backdrop of European Parliament resolution of 16 February 2017 with recommendations to the Commission on Civil Law Rules on Robotics, on the occasion of International Conference on Artificial Intelligence, organized during May 7th, 2019 at Barcelona and May 8th, 2019 at Madrid, Spain.

Conferences attended outside IIIT Allahabad

1. Attended renowned International Conference, CVPR- 2019, June 16-19, 2019, Long Beach, CA, USA.
2. Attended 14th IEEE International Conference on Control and Automation (ICCA-2018) conducted during June 12-15, 2018 at Anchorage, Alaska, USA, presented a paper and chaired a session on Robotics-II.
3. Attended IEEE UPCONN-2018, organized during 2-4 November, 2018 at MMM University, Gorakhpur, India.
4. Attended 2nd International Conference on Advanced Computing and Software Engineering (ICACSE-2019)” organized during Feb 8-9, 2019, KNIT Sultanpur, India.
5. Attended International Conference on Artificial Intelligence, organized during May 7-8, 2019 at Barcelona and Madrid, Spain.

Work done in project undertaken in the Institute:

Project Names:

- Developing Robot Grasping Technology using Deep Reinforcement Learning with Ms. Priya Shukla.
- On Human Robot Interactions with emotion using optimized Deep Learning Techniques with Ms. Shruti Jaiswal.
- On integration of household smart devices with mobile robots with Mr. Aditya Singh.
- Development of human Imitation Learning Technology using Non-dominated Sorting Genetic Algorithm and Deep Generative Networks with Mr. Padmakar Pandey.
- Biped Locomotion Control for humanoid robots using Deep Reinforcement Learning with Mr. Gaurav Kumar Yadav.
- Developing Robot for vision using Deep Generative Models with Ms. Vandana Kushwa.

Other Activities:



Prof G C Nandi is among the distinguished panel speakers in 4th Indo-Japan Workshop 27th Feb, 2019, New Delhi.



Prof. G C Nandi was invited to act as a distinguished panelist in the Artificial Intelligence, International conference, Barcelona- Madrid, May 7-8, 2019, Spain.



Robot Anukul inducted in January 2019 in the Robotics and Machine Intelligence Laboratory for conducting research on the project of Robot Grasping using Deep Reinforcement Learning.



Prof. Om Prakash Vyas

Department & Designation:

Information technology, Professor

Teaching/Research Experience:

31+ Years

New courses developed:

A new course **Business Informatics** was developed and implemented as Elective Course for B. Tech. (IT) students (January 2019 Semester)

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	B. Kumar, O. P. Vyas, R. Vyas	A comprehensive review on the variants of support vector machines	<i>Modern Physics Letters B</i>	Volume 33(25)	2019	11 Pages
2	B. Singh, O. P. Vyas	Maximum spanning tree based redundancy elimination for feature selection of high dimensional data	International Arab Journal Information Technology	Vol. 15(5)	2018	831-841

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Date-Month-Year	Pages
1.	A Khare, G Merlino, F Longo, A Puliafito, OP Vyas	Towards a Trustless Smart City system: The #SmartME experiment	IEEE 28th International Conference on Enabling Technologies -WETICE 2019	March 2019	204-207
2.	M Rani, A Kumar, D Maurya, S Mishra, S Sonker, U Saxena, OP Vyas	Ontology-based Bitmasking Approach for Smart e-tourism System	Pervasive Computing: A Networking Perspective and Future Directions,	Jan 2019	111-126
3.	Ashish Singh Patel, Muneendra Ojha, Monika Rani, Abhinav Khare, OP Vyas, Ranjana Vyas	Ontology-Based Multi-agent Smart Bike Sharing System (SBSS)	IEEE SmartComp 18	June 2018	417-422

Seminars and invited talks presented:

- Invited by Germany's Paderborn University to participate in Colloquium and to deliver Invited Talk on "Business Intelligence" (Paderborn University-Germany June 2018).
- Colloquium on Business Informatics was organized with Experts from Norway, Germany and from IT corporates L&T InfoTech in December 2018 (IIIT-Allahabad)

Work done in project undertaken in the Institute:

- One Indo-Norway ICT Project (sponsored by DST New Delhi & RCN Norway) was started in the areas of "Cyber Security & Machine Learning" (2018-2021) in collaboration with IIT Kanpur, NTNU Norway & Energy Research Institute Norway
- Worked as Program Mentor for new B.Tech. course in Business Informatics while coordinating with colleagues from and outside IIITA for structuring new program since July 2018.



Prof. Tapobrata Lahiri

Department & Designation:

Applied Sciences, Professor and Dean (Academics)

Teaching/Research/Industry Experience:

Teaching/Research: 29 years

New courses developed:

Title, course number: Please See Annexure A for the course structure of B.Tech. IT –Business Informatics which has been developed by the undersigned as a part of the team in his capacity as the Dean (Academics and Research).

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1.	Pal MK, Lahiri T , Tanwar G, Kumar R.	An improved protein structure evaluation using a semi-empirically derived structure property.	BMC Structural Biology	18(1)	2018	1-10
2.	Kumar R., Lahiri T .	EcircPred: Sequence and secondary structural property based computational identification of exonic circular RNAs	Computational biology and chemistry	77	2018	28-35

Average Impact Factor of all publications and name of the major journal in which publication are made:

1.579 computed from all the major journals

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year	Pages
1.	Kumar R., Pal M.K. & Lahiri T.	Study on correlations between expressions of different biomolecule pairs to understand effect of molecular crowding in biogenesis of circular RNA	2018 International Conference on Bioinformatics and Systems Biology (BSB)	978-1-5386-6434-6/18/\$31.00 ©2018 IEEE	26/10/2018 (Date of publication)	147-151
2.	Kaushik V., Lahiri T., Singh J. & Kumar G.	Statistics of Unrelated Sequence Properties to Improve Prediction of B-Cell Based Linear Epitopes	2018 International Conference on Engineering, Applied Sciences, and Technology (ICEAST)	978-1-5386-4956-5/18/\$31.00 ©2018 IEEE	4/7/2018 (Date of publication)	1-4

Seminars and invited talks presented:

- “Machine Learning and Its Applications” at School of Information and Communication Technology, Gautam Buddha University, Greater Noida – 201308 on Feb 2, 2019.
- “Social relevance of technical education and research in the area of Biomedical Engineering” at Biomedical Engineering Programme, Department of Applied Mechanics, Motilal Nehru National Institute of Technology Allahabad-211004, India on Sept 13, 2018.
- “Machine Learning in Biology” in Workshop on Bio-Mathematics organized by National Academy of Science, India (Prayagraj) on March 01, 2019

**Conferences attended outside IIIT Allahabad:**

- IHCI 2018 : 10th International Conference on Intelligent Human Computer Interaction, IIIT Allahabad, 7th December, 2018, Chair, Technical Session 2 (Track 2 - Image and Vision based Interactions).

Work done in project undertaken in the Institute:

Currently I am associated with Dr. Hrishikesh Mishra ('Scientist in Bioinformatics' in Sickle Cell Institute Chhattisgarh, Raipur) in ICMR funded project "Artificial intelligence aided computational approach using clinical laboratory markers to predict response to hydroxyurea therapy in Indian patients with sickle cell disease" as a co-investigator (Start date: 16th March 2017, Project duration: 3 years)

Training Programmes organized:

- "International Conference on Bioinformatics and Systems Biology" held on 26th to 28th October, 2018 (as Member, Local Organizing Committee).

Other Activities:**(a) Technology Developed**

- New fast semi-empirical method for determination of protein structure to help in target oriented drug-design.
- Provided novel integrated cellular geography based model of Circular RNA Biogenesis.
- Provided novel machine learning based model for identification of circular RNA from the pool of mixed population of varieties of RNAs.
- Provided a novel basis of identification for protein homologues through newly developed search model. This model utilized both for protein sequence and physicochemical properties for finding better homologues than the existing methods.

(b) Software Developed

- ProtPCV: It has been developed for pair-wise comparison of Protein Sequences using both sequence and physicochemical properties of proteins (Applied for copyright with Diary no. 14232/2019-CO/SW).
- EcircPred: It has been developed for Sequence and secondary structural property based computational identification of exonic circular RNAs.
- APT: An Automated Probe Tracker for screening disease relevant genetic probes from normal-disease pair of Differential Gene Expression (DGE) datasets.

(c) Awards and Honors

- "Research Advisor" by Nan Yang Academy of Sciences, Singapore with effect from Nov 28, 2018.
- "Certificate of Membership" by MHRD's Innovation Cell, Govt. of India for the Academic year (2018-19).

(d) Any other important activity not specified above

As Dean (Academic and Research) actively participated for launching of New Academic and Research Ordinances for implementation of Choice Based Credit System along with Continuous mode of assessments.

Also actively participated for launching of new B.Tech. Program: B.Tech. in IT – Business Informatics.



Prof. Anupam

Department & Designation:

Information Technology, Professor and Dean (Technology and Promotional Affairs)

Teaching/Research/Industry Experience:

30+ years

New courses developed:

- Image & Video Processing, IIVP632C / IIVP240C (with Dr. Satish Kumar Singh)
- Virtual Reality, IVIR730E / IVIR340E
- Advanced Graphics & Animation, IAGA840C/ IAGA240C
- Artificial Intelligence, IAIN532C (with Dr. Rahul Kala)
- Theory of Computation, ITOC211C (with Dr. Manish Kumar)

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Piyush Kumar and Anupam Agrawal	GPU-based Focus-Driven Multi-coordinates Viewing System for Large Volume Data Visualization	InderScience International Journal of Computational Systems Engineering (Scopus)	4	April 2018	86-95

Average Impact Factor of all publications and name of the major journal in which publication are made.

InderScience International Journal of Computational Systems Engineering (**Scopus**)

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year
1.	Hardik Dosi, Rahul Keshri, Pravin Srivastav and Anupam Agrawal	A Comparative Analysis of LGBP and DCLBP-based methods for Non-frontal Facial Emotion Recognition	Springer 3rd Intl. Conf. on Computer Vision & Image Processing (Springer CVIP-2018)	156	29 Sept - 01 Oct'2018
2.	Gopal Chandra Jana and Anupam Agrawal	An Artificial Intelligence Method for Discriminating Eye state from Quantitative EEG	IEEE 4th International Conference for Convergence in Technology (IEEE I2CT-2018)	730	27-28 October, 2018

Seminars and invited talks presented:

- “Multiresolution Techniques for Interactive 3D Visualization of Out-of-Core Geo-spatial and Volumetric Medical Data Sets”, Keynote speech in International Congress – SANMANTRANA-2019 on **04-2-2019** at Shri Vaishnav Vidyapeeth Viswavidyalaya, Indore, India.
- Delivered a talk on “Research in Human-Computer Interaction” as the Chief Guest of Valedictory Session of FIESTA-DE-CODIGO (Coding Challenge-2019) CSI Allahabad Chapter in association with IIT, Mumbai, CSI-SIET Student Branch and Department of Computer Science & Engineering, Shambhunath Institute of Engineering & Technology, Prayagraj on March 9, 2019.



Conferences attended outside IIIT Allahabad:

- Served as the Track Chair: “Virtual, Augmented and Mixed Reality for Human-Computer Interaction”, Springer International Conference IHCI-2018, 7-9 Dec.’2018.

Other Activities:

(a) Software Developed

- Learning App for Autistic Children (in collaboration with a doctor of SRN Hospital, Prayagraj)
- AR-based App for Museum (in collaboration with a Allahabad Museum, Prayagraj)
- Eye Gaze Tracking for Autism Detection (in collaboration with a doctor of SRN Hospital, Prayagraj)

(b) Industry visited and visits to other Institutes for research

- Visited Department of Design, Indian Institute of Technology Guwahati on Invitation of the Head Prof. Pradeep Yammiyavar on 06-02-2019 for doctoral thesis viva-voce and for possible Research collaboration in the Augmented Reality Area.

(c) Participation in the High Level Industry, Academia Interaction Programme during summer

Developed research collaboration with Prof. Ratna Sharma, Stress and Cognitive Electroimaging Lab, Physiology Department, All India Institute of Medical Sciences (AIIMS), New Delhi, India. Now jointly organizing a Special Session in an International Conference in Delhi during 21-23 Feb’2019.

(d) Any other important activity not specified above

- (i) Served as Dean Academics (Interim) of IIIT-Lucknow till 28th Feb’2019.
- (ii) Served as paper reviewer of IEEE, Springer, Elsevier, Taylor & Francis and other reputed Journals.
- (iii) PhD thesis Examiner for a thesis from Indian Institute of Technology Guwahati.



Prof. Shirshu Varma

Department & Designation:

Department of IT, Professor

Teaching/Research Experience:

26 years

Books and book-chapters published:

1. Shirshu Varma et.al.. (2019). Middleware Approach to Enhance the Security and Privacy in the Internet of Things. In *Security and Privacy Issues in Sensor Networks and IoT* (pp. 169-192). IGI Global.
2. Shirshu Varma et.al.. (2019). Digital Forensic and Counter Forensic Procedures in Integration with Internet of Things. In *Digital Forensic Tools, Techniques and Counter Measures..* IGI Global.

Research papers published in journals

1. Shirshu Varma et.al.. (2019). Trust-based forest monitoring system using Internet of Things. *International Journal of Communication Systems*.
2. Average Impact Factor of all publications and name of the major journal in which publication are made. SCI JOURNAL(AVERAGE IMPACT FACTOR-1.79)

Publications in Conferences

1. Shirshu Varma et. al., “**Configuration of Aerial Mesh Networks with Internet of Things**” In *2018 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET)* (pp. 1-3). IEEE, 2018.
2. Shirshu Varma et. al., “**Energy Efficient Smart Working Environment Using Internet of Things**” In *2019 IEEE 89th Vehicular Technology Conference (VTC2019-Spring)* (pp. 1-5). IEEE, 2019.

Seminars and invited talks presented:

1. On “**Introduction to Wireless Sensor Networks towards Internet of Things and its Applications**” Faculty Development Program at Indian Institute of Technology, Dhanbad, India, June, 2019.
2. On “ **Machine Learning in Wireless Sensor Networks**” in Machine Learning and Data Analytics-20419 at Indian Institute of Information Technology, Prayagraj, , India, May, 2019.
3. On “**Introduction to Internet of Things**” in Faculty Develop Program at United Institute of Technology, Prayagraj, India, May, 2019.

Training Programmes organized:

Academia Conclave, organized on 18th April, 2019 at EW DELHI



Dr. Akhilesh Tiwari

Department & Designation:

Applied Sciences, Associate Professor

Teaching/Research/Industry Experience:

Teaching/Research: 20 years, Industry 01 year Total: 21 years

New courses developed:

Workshop on Physics Principles-1, Workshop on Physics Principles-2

Seminars and invited talks presented:

Invited speaker at Three days' workshop on Thin Film Technologies held on June 6-8, 2018 organized by Department of Electronics and Communications, IIIT Allahabad

Conferences attended outside IIIT Allahabad:

1. Dinesh Kumar and Akhilesh Tiwari "A Technique of Water Vapor Recovery Through the Characterization of Condensation Phenomena" at the International 'Joint Agrospace MELISSA Workshop 2018' on 'Current and Future Ways to Closed Life Support Systems' Organized by European Space Agency (ESA), held at Headquarters of Italian Research Council (CNR), Rome, Italy from May 16-18, 2018.
2. Ankit Singh, Dinesh Kumar, Akhilesh Tiwari and Pramod Kumar "Study of your Physics Lab Experiment into your Smartphone and PC" in XXXIII National Annual Convention of IAPT and Symposium on "Excellence in Physics Teaching & Research" NACISP-2018, October 29-31, 2018, organized by University Department of Physics, Ranchi University, Ranchi.
3. Dinesh Kumar, Akhilesh Tiwari and Pramod Kumar "Analysis and designing of an invisibility cloak based on Metamaterial" in XXXIII National Annual Convention of IAPT and Symposium on "Excellence in Physics Teaching & Research" NACISP-2018, October 29-31, 2018, organized by University Department of Physics, Ranchi University, Ranchi.

Training Programmes organized:

1. Organized a two days workshop on "(ExpEYES) Interfacing Physics Experiments to Convert your PC into Physics Laboratory", 21-22 April, 2018 held at the Department of Applied Science, IIIT Allahabad.
2. Organized a 10 Days Global Initiates of Academic Networks (GIAN) Course on "Numerical Methods on Transport Phenomenon (NMTP)" March 26th – 4th April, 2018, at the Department of Applied Science, Indian Institute of Information Technology, Allahabad with a Foreign Faculty Prof Jean-Pierre Fontaine, UBP, France.

Other Activities:

Industry visited and visits to other Institutes for research

Visited Indian Telephone Industries, Raibareli (ITI, Raibareli) on March 2, 2019, with a vision and scope for future industrial collaborations.

Awards and Honors

Elected to the grade of Senior Member, IEEE in recognition of professional standing the Officers and Board Directors of the IEEE

Continuing Education Activities

Organized a two days self-financed workshop in collaboration with IAPT & IEEE UP Section on "Experimental Physics pre-university workshop for the students of Kendriya Vidyalaya Jhalwa, Prayagraj held at department of Applied Sciences from 26-27 April 2019.

Any other important activity not specified above

Chief Election Commissioner – Gymkhana Election 2019:- Performed total automated online voting procedures.



Dr. Abhishek Vaish

Department & Designation:

Information Technology, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: 11.5 Govt/Industry Experience: 2.5 Total: 14

Average Impact Factor of all publications and name of the major journal in which publication are made. 8

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year	Pages
1.	Alexey N Nazarov, Abhishek Vaish, Ilia M Voronkov, Sunakshi Singh, Nitish Kumar Ojha	Methodology for Detecting Traces of Preparation for Cyber Attacks	IEEE Explore, 2018 Engineering and Telecommunication		15-11-2018	12-15

Seminars and invited talks presented:

- Innovation the new knowledge Mantra, Narula Institute of Technology, Kolkata, 18th to 20th September, 19.
- Cyber Security, Sahyadri College of Engineering and Management, Mangalore, 4th July, 2018
- Science Diplomacy Programme, Department of Science and Technology jointly with NIAS Bangalore, 26 March, 19

Conferences attended outside IIIT Allahabad:

- Conference on International cooperation at Higher Education, Moscow Institute of Physics and Technology, Moscow participated as panelist in discussion.

Work done in project undertaken in the Institute:

Member of Web coordination committee.

Awards and Honors:

- Conferred as Academic Advocate, ISACA USA
- Nominated as jury member for 2nd Innompics games, (Innovation games) held at University of Kuala Lumpur, Malaysia



Dr. Abdullah Bin Abu Baker

Department & Designation:

Applied Sciences, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: 5 years



Dr. Amaresh Kumar Sahoo

Department & Designation:

Applied Sciences, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: 4 years

Books and book-chapters published:

S. No.	Author(s) Name	Title of the Book/Chapter	Publisher	Place and Year of publication	Pages (in case book chapter)
1.	Moumita Majumdar, Saurabh Shivalkar, Ayantika Pal, Madan Lal Verma, Amaresh Kumar Sahoo*, Dijendra Nath Roy*	Nanotechnology for Enhanced Bioactivity of Bioactive Compounds'	Elsevier	ISBN: 9780444643230, 2019.	434-456

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Upashi Goswami, Amaresh Kumar Sahoo, Arun Chattopadhyay and Siddhartha Sankar Ghosh	<i>In Situ</i> Synthesis of Luminescent Au Nanoclusters on a Bacterial Template for Rapid Detection, Quantification, and Distinction of Kanamycin-Resistant Bacteria.	ACS Omega	3 (6)	2018	6113-6119.
2	Pavan Kumar Gautam, Anirudh Singh, Krishna Misra, Amaresh Kumar Sahoo*, Sintu Kumar Samanta*	Synthesis and applications of biogenic nanomaterials in drinking and wastewater treatment.	Journal of Environmental Management	231	2018	734-748
3	Debjani Banerjee, Shivapriya Pingali, Pavan Kumar Gautam, Krishna Misra, Amaresh Kumar Sahoo* and Sintu Kumar Samanta*	A Review on Basic Biology of Bacterial Biofilm Infections and Their Treatments by Nanotechnology-Based Approaches.	Proceedings of the National Academy of Sciences, India Section B: Biological Sciences,	DOI: 10.1007/s40011-018-01065-7.	2019	
4	Vishal Singh, Aparajita Basu, Shivapriya Pingali, Pritish Kumar Varadwaj, Sintu Kumar Samanta* and Amaresh Kumar Sahoo*.	Exploration of Interactions of 'Blood-Nano Interface' of Carbon Based Nanomaterials for Biomedical Applications	Journal of Materials Research	11 (34)	2019	1950-1964.

Work done in project undertaken in the Institute:

Synthesis and characterization of the Ag NCs as well as fluorescent C-dots has been going on. Mainly, our PhD students are engaged to perform the experimental works. They have collected Initial phase of data to achieve the goals of the project. We have procured four bacterial strains from MTCC which will be useful for the study of the antibiofilm activity of the composite. Synthesis of Ag NCs has been done, now are characterizing the Ag NCs by TEM electron microscopy and Fluorescence spectroscopy. In parallel, we are also standardizing the synthesis protocol of the fluorescent C-dots from economical organic waste as carbon source like used flowers from temple.



Dr. Anand Kumar Tiwari

Department & Designation:

Applied Sciences, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: **06 Years** Total: **06 Years**

Seminars and invited talks presented:

- Equivelar and semi-equivelar maps: A generalization of Platonic solids and Archimedean solids. Organization: Rajkiya Engineering College Banda, Atrrah (UP), Date: February 23, 2019

Work done in project undertaken in the Institute:

Doubly semi-equivelar maps and their Classification for lower genus surfaces.



Dr. Anurika Vaish

Department & Designation:

Management Studies , Associate Professor

Teaching/Research/Industry Experience:

Teaching/Research: 17 years, Industry: 1 year, Total: 18 years

New courses developed

- Operation and Production Management (MOPM), Economics (MECO), Organizational Behavior (MORB)

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Singh,Kavita, Sengupta,Sarthak and Vaish,Dr. Anurika	Overreaction and Availability Bias: Analysis of Real Estate Sector's Stock Prices and Investors' Reaction during Demonetisation in India	Journal of Modern Accounting and Auditing	Volume 15, Issue 5	2019	232-240
2	Singh,Seema, Vaish, Dr Anurika, Sengupta, Sarthak	Performance Appraisal in Higher Academic Institutions of India	Indian Journal of Human Relations	Vol. 52 Issue 2	2018	75-82

Average Impact Factor of all publications and name of the major journal in which publication are made.

Google Scholar statistics:-

Citations: 155

h-index: 6

i10-index: 4

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year	Pages
1	Vaish, Dr. Anurika, Sengupta, Sarthak and Singh, Nimisha	Banking industries and BASEL accord: A measure for maintaining capital adequacy	National Conference on Emerging Business Practices, BHU		April, 7-8, 2018	
2	Sengupta,Sarthak, Singh,Anurag and Vaish,Dr.Anurika	Intelligent E-Learning Management System: A Blended Learning Approach for Quality Improvement	Management Doctoral Colloquium and Research Scholars Day, IIT Kharagpur		February 2019	
3	Sengupta,Sarthak and Vaish, Dr. Anurika	Impact of 2016 Demonetization on Indian Market and Digital Economy	International Conference on Digital Economy, IIM Raipur		February 2019	
4	Sengupta,Sarthak, Pathak, Arijit, Kishore,Akshay, Vaish, Dr. Anurika	Strategic Welfare of Stakeholders in Educational Institutions of India	National conference and Industry-Academia Interface, IIIT Allahabad		February 2019	



Seminars and invited talks presented:

Invited talk on overreaction and availability bias at Summer school on behavioral Finance , IIITAllahabad, June 2018

Work done in project undertaken in the Institute:

Nodal Officer, Unnat Bharat Abhiyan - IIITA

Awards and Honors

- Best paper award in microeconomics and cashless economy area. ICDE 2019, IIM Raipur

Continuing Education Activities

- Management Development Programme on Big Data Analytics and Research, held at IIM Calcutta, July 2018
- Faculty Development Programme on Advanced Data Analytics for Finance and Marketing, held at ABV-IIITM Gwalior , April 2018

Any other important activity not specified above

- Chairperson, Extension and Outreach Activities, IIIT Allahabad, 2017
- Joint Coordinator , National conference and Industry-Academia Interface, IIIT Allahabad



Dr. Bibhas Ghoshal

Designation & Department:

Assistant Professor, Information Technology

Teaching/Research/Industry Experience:

Teaching/Research: 9 years

New courses developed:

- **Embedded System** : Modelling, Design and Analysis (IEMB730E)
Elective Course running since [2016, 2017, 2018]
- **Course website** : http://profile.iiita.ac.in/bibhas.ghoshal/teaching_embedded.html
- **Internet of Things**
Elective course for M.Tech(IT/ECE) students – will commence in 2019-2020 session

Books and book-chapters published:

S. No.	Author(s) Name	Title of the Book/Chapter	Publisher	Place and Year of publication	Pages (in case book chapter)
1	Bibhas Ghoshal	Impoved Test Techniques for Network on Chip Based Memory Systems	LAP LAMBERT Academic Publishing	July 30, 2016	172 pages

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Manvendra Dattatrey, Abhishek Kumar Tiwari, Bibhas Ghoshal, Jagpreet Singh	Predicting Bone Modeling Parameters in Response to Mechanical Loading	IEEE Access	7	2019	122561-122572

Conferences attended outside IIIT Allahabad:

- Technological Exhibition of 149 IMPRINT India I projects,
Venue : IIT Delhi, Duration : 4th August, 2019
Participation : As PI of project no. 7482, presented the poster at the event
- **Conference Attended:** Energy efficiency Challenges for HPC system
Venue : CDAC Bangalore, Duration : 17th May 2019
Type of participation : Attendee
- Conference Attended: 32nd International Conference on VLSI Design and 2019 18th International Conference on Embedded Systems (VLSID 2019)
Venue : Delhi, India
Type of participation : Attendee

Work done in project undertaken in the Institute:

The IMPRINT India project no. 7482 has been currently underway at IIIT Allahabad. The prototype development for the project is in progress and two articles drafted out of the project work are under revision at two reputed journals in Embedded System domain

Other Activities:

(a) Software Developed

- Power Profiler for Embedded Processors
- Software support for customized Smart Street Light System



Dr. Jagpreet Singh

Department & Designation:

Information Technology, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: **11 Years** Industry **NIL** Total: 11 Years

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Sukhwinder Singh Sran, Jagpreet Singh, Lakhwinder Kaur	Structure Free Aggregation in Duty Cycle Sensor Networks for Delay Sensitive Applications	IEEE Transactions on Green Communications and Networking	vol. 2, no. 4	Dec, 2018	1140-1149
2	Sukhwinder Singh Sran, Jagpreet Singh, Lakhwinder Kaur	Aggregation Aware Early Event Notification Technique for Delay Sensitive Applications in Wireless Sensor Networks	International Journal of Sensor Networks	vol. 28, no. 1	Sep. 2018	11-21

Average Impact Factor of all publications and name of the major journal in which publication are made: 1.289

- IEEE Transactions on Green Communications and Networking
- International Journal of Sensor Networks

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year	Pages
1	Maciej Besta, Dimitri Stanojevic, Tijana Zivic, Jagpreet Singh, Maurice Horold, Torsten Hoefler	Log(Graph): A Near-Optimal High-Performance Graph Representation	Parallel Architectures and Compilation Techniques (PACT18)	7	1/11/2018	7:1-7:13

Work done in project undertaken in the Institute:

Received Early Career Research Award (ECRA) from DST-SERB for the following research project.

- Scheduling of precedence tasks with DVFS and Duplication on heterogeneous multiprocessors, Amount: 17, 98, 090 INR, Duration 2019-2022

Received Seed research Grant from IIIT Allahabad for the following project

- LogGP based optimization of collective algorithms, Amount: 8, 00, 000 INR, Duration 2018-2020

Other Activities:

(a) Software Developed

Guided undergraduate students groups to develop following Android based apps:

- “Career Counseling Bot” developed by Parth Agarwal, Rishab Agarwal, Arindam Das Modak, Abhishek Acharya (2016 Batch students)
- “Document Organizer” developed by Aditi Bansal, Rochisha Haldyani, Tanya Agarwal (2016 Batch students)



Dr. Krishna Pratap Singh

Department & Designation:

Information Technology, Associate Professor

Teaching/Research/Industry Experience:

Teaching/Research: 15 years Industry: 02 years Total: 17 years

New courses developed:

- Probabilistic Machine Learning & Graphical Model

Books and book-chapters published:

- In C. Gao, G. Zhao, & H. Fourati (Eds.), Cooperative Localization and Navigation: Theory

S. No.	Author(s) Name	Title of the Book/Chapter	Publisher	Place and Year of publication	Pages (in case book chapter)
1	Kashniyal, J., Verma, S. & Singh, K. P.	Cooperative Localization in Wireless Sensor Networks via Kernel Isomap	CRC PRESS	2019	605

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Jyoti Kashniyal, Shekhar Verma, Krishna Pratap Singh	A new patch and stitch algorithm for localization in wireless sensor networks	Wireless Networks	25	2019	3251-3264
2	Bodhi Chakraborty, Shekhar Verma and Krishna Pratap Singh	Differentially Private Location Privacy Preservation in Wireless Sensor Networks	Wireless Personal Communications	104	2019	387-406
3	Muneendra Ojha, Krishna Pratap Singh, Pavan Chakraborty, Shekhar Verma	An Efficient Framework Using Normalized Dominance Operator for Multi-Objective Evolutionary Algorithms	International Journal of Swarm Intelligence Research	10	2019	15-37

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Date-Month-Year	Pages
1	Abhinav Mishra, Kshitij Tripathi, Lakshay Gupta, Krishna Pratap Singh	Long Short-Term Memory Recurrent Neural Network Architectures for Melody Generation	Soft Computing for Problem Solving	SocPROs-2017	41-55

Seminars and invited talks presented:

- MLDA-18, IIIT Allahabad
- ADASIVA-18, IIIT Allahabad. (Two Lectures)
- Data Analytics & Machine Learning ALVA'S, Manglore, January, 22-29, 2019 (7 Days Training Programme)
- Workshop on AI & Deep Learning, Allahabad University, 25th Feb., 2019
- Rajkiya Engineering College, Azamgarh, 11-15 th March, 2019.

Conferences attended outside IIIT Allahabad:

- SocPros-2018, Dec., 17-19, 2018, VIT Vellore, Chairing Session.
- VCAS-2018, Nov., 29- Dec.- 1, 2018, MNNIT Allahabad, Chairing Session.



Work done in project undertaken in the Institute:

- AVIRAL

Training Programmes organized:

- Two months Summer Training for Students
- MLDA-18 (One Week)

Other Activities:

(a) Continuing Education Activities

- MLDA-18, IIIT Allahabad, June, 20-26, 2018
- Researchers Day, IIIT Allahabad, March, 7, 2018.



Dr. Madhvendra Misra

Department & Designation:

Management Studies, Associate Professor

Teaching/Research/Experience:

19 Years

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Kuldeep Singh, Madhvednra Misra	Financial determinants of cash holding levels: An analysis of Indian agricultural enterprises	Agricultural Economics	65(5)	2019	240-248
2	Kuldeep Singh, Madhvednra Misra, Mohit Kumar, Vineet Tiwari	A study on the determinants of financial performance of U.S. agricultural cooperatives	Journal of Business Economics and Management	20(4)	2019	633-647

Average Impact Factor of all publications and name of the major journal in which publication are made

- Journal of Business Economics and Management (Listed in ABDC “B”, SSCI, Impact factor 1.855)
- Agricultural Economics (SSCI), Impact factor 1.00

Seminars and invited talks presented:

- Resource Person – Invited Lecture on “Managing Brand and Services”, 25th July 2018 at Acupressure Research, Training and Treatment Sansthan.
- Resource Person – Invited Lecture on “Issues in branding and media planning for SMEs”, 30th June 2018 at Jagran Marketing Conclave.
- Resource Person – Invited Talk and Plennary discussions at IIC E-Summit on 9th March 2019 at IIIT, Allahabad
- Resource Person – Invited Talk on Devloping and Assesment of Industry 4.0 at National Productivity Council during 23rd to 25th July 2018 in New Delhi.

Conferences attended outside IIIT Allahabad:

Kuldeep Singh, Madhvendra Misra: *Recognition and prioritization of Agripreneur inclination factors by using ISM & MICMAC*. 6th PAN IIM World Management Conference - IIM Banagalore; 12/2018

- Kuldeep Singh, Madhvendra Misra: *Corporate Social Responsibility (CSR): An Investment Opportunity or a Forced Expenditure*. 7th Annual International Sustainability Conference (SUSCON VII) - IIM Shillong, IIM, Shillong; 11/2018
- Mohit Kumar, Kuldeep Singh, Madhvendra Misra: *An ISM and MICMAC Approach for the Barrier Analysis in Sustainable Agri-Food Supply Chains*. IIMB Sixth Biennial Supply Chain Management Conference 2018, Bengaluru; 12/2018



Dr. Manish Goswami

Designation & Department:

Associate Professor, Electronics and Communication Engineering

Teaching/Research/Industry Experience:

Teaching/Research: 16 years Industry: 01 years Total: 17 years

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	J D'sa, D Sachan, M Goswami	Fabrication of Stress and Temperature Measurement Sensors and Possible Integration with Fabricated Biodegradable Drug Delivery Device	IETE Journal of Research	-	2019	1-9
2	JK Mishra, H Srivastava, PK Misra, M Goswami	Analytical modelling and design of 9T SRAM cell with leakage control	Analog Integrated Circuits and Signal Processing		2019	
3	D Sachan, M Goswami, PK Misra	A high-Q floating active inductor using 130 nm BiCMOS technology and its application in IF band pass filter	Analog Integrated Circuits and Signal Processing		2018	
4	J Das, M Goswami, BR Singh, N Bhatt, P Sharma, MK Chauhan	Design and fabrication of a magnetically actuated non-invasive reusable drug delivery device	Drug development and industrial pharmacy		2018	
5	D Sachan, H Kumar, M Goswami, PK Misra	A 2.4 GHz low power low phase-noise enhanced FOM VCO for RF applications using 180 nm CMOS technology	Wireless Personal Communications		2018	

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year	Pages
1	JK Mishra, H Srivastava, PK Misra, M Goswami	A 40nm Low Power High Stable SRAM Cell Using Separate Read Port and Sleep Transistor Methodology	IEEE International Symposium on Smart Electronic Systems (iSES)			
	D Kumar, K Nabi, PK Misra, M Goswami	Modified Tent Map Based Design for True Random Number Generator	IEEE International Symposium on Smart Electronic Systems (iSES)			

Work done in project undertaken in the Institute:

- Working towards SMDPC2SD Project of Meity, GOI.

Training Programmes organized:

- Summer Training program on VLSI Design- 2018



Dr. Manish Kumar

Designation and Department:

Associate Professor, Information Technology

Publications (Research Papers and Books):

- “ODECS: An On Demand Explosion-Based Compressed Sensing Using Random Walks in Wireless Sensor Networks” accepted in IEEE Systems Journal (2019) (Impact Factor: 4.337).
- “DLME: Distributed Log Mining Using Ensemble Learning for Fault Prediction” accepted in IEEE Systems Journal (2019) (Impact Factor: 4.337).
- “Pattern mining for large distributed dataset: A parallel approach (PMLDD) accepted in KSII Transactions on Internet & Information Systems 12, no. 11 (2018) (Impact Factor: 0.611).

Invited talks in Seminars/ Workshops/Conferences/ Symposiums etc.

- “Current Trends in Integration of IoT with Blockchain Technology”, “Technical Education Quality Improvement Programme”, 11 March - 15 March, 2019 Rajkiya Engineering College, Azamgarh, UP.
- “Machine Learning for Business Intelligence: Concepts, Techniques and Applications”, Faculty Development Programme on “Advancement in Machine Learning”, 26 February - 2 March, 2019 at I.E.R.T. Prayagraj
- “Lecture on e-Learning”, Workshop on “Faculty Development Centre sponsored by MHRD”, 11th February, 2019
- “Big Data in Life Sciences and Healthcare (BDLSH-2019)», Workshop on «Big Data Mining”, 12 February - 13 February, 2019 at Amity University Uttar Pradesh, Lucknow Campus.
- “Data Mining Algorithms-Large Enough”, Faculty Development Programme on “Data Mining”, 1 June - 6 June, 2018 Shambhunath Institute of Engineering & Technology, Allahabad.
- “Data management in Mobile Computing”, Faculty Development Program on “Advance Computer Network”, 1 May - 5 May, 2018 United College of Engineering and Research, Allahabad.
- “Sparse Matrix Completion for Effective Recommendation System,” in International Conference on VLSI, Communication and Signal Processing, 2018.
- (2) “Applying Big Data Intelligence for Real Time Machine Fault Prediction,” in International Conference on Big Data Analytics, pp. 376-391. Springer, Cham, 2018.

Lab & Curriculum Development

- Coordinator of Data Analytic Lab
- Member of CordIoT Lab

Administrative responsibilities

- Chairman, Council of Wardens, IIIT Allahabad
- Estate officer, IIIT Allahabad (Jan-19 to June-19)

Any other important activity not specified above

- Chairman (Senate Under Graduate Committee) IIIT Allahabad
- Secretary, IEEE Computer Society, UP Section



Dr. Mohammed Javed

Department & Designation:

Information Technology, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: 03 years Total: 03 years

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	1. Mohammed Javed 2. P. Nagabhushan 3. Bidyut B. Chaudhuri	A review on document image analysis techniques directly in the compressed domain	Journal of Artificial Intelligence Review	50(4)	2018	539-568
2.	Mohammed Javed P. Nagabhushan Bidyut B. Chaudhuri Satish K. Singh	Edge Based Enhancement of Retinal Images Using and Efficient JPEG-Compressed Domain Technique	Journal of Intelligent & Fuzzy Systems	36(01)	2019	541-556
3.	Amarnath R Sindhushree G.S P. Nagabhushan Mohammed Javed	Automatic Localization and Extraction of Tables from Handheld Mobile-Camera Captured Handwritten Document Images	Journal of Intelligent & Fuzzy Systems	36(03)	2019	2527-2544

Average Impact Factor of all publications and name of the major journal in which publication are made: 2.8

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year	Pages
1.	D. K. Sreekantha, Rachana H K, Sripada G Mehendale, Mohammed Javed, KVSSSS Sairam	Expert System for Automated Prediction of Difficulties in Securing Airway in ICU and OT	UBICNET	276	02/8-10/8, 2019	124-141
2	Amarnath R, P. Nagabhushan, Mohammed Javed	Enabling Text-line Segmentation in RunLength Encoded Handwritten Document Image using Entropy Driven Incremental Learning	CVIP		29/9-1/10, 2018	

Seminars and invited talks presented:

- Workshop Cum Internship Program on “Data Analytics and Machine Learning”, Alva’s Institute of Engineering & Technology (AIET), Mijar Campus, Moodbidri, Karnataka, in association with IIIT Allahabad, through MoU.

Dates: January 15-29, 2019

Topic: Image Processing Hands On using MATLAB

Role: Resource Person

Conferences attended outside IIIT Allahabad:

- NGCT-2018, International Conference on Next Generation Computing Technologies, UPES, Dehradun, Uttarkhand, India
Dates: November 21-22, 2018
Role: Program Committee Member
- ICIC-2018, International Conference on Intelligent Computing, Birla Institute of Technology, Mesra, India
Dates: 25 - 27 October, 2018
Role: Distinguished Program Committee Member
- MIND-2019, International Conference on Machine Learning, Image Processing, Network Security and Data Sciences, NIT Kurukshetra, India.
Dates: 3 - 4 March, 2019
Role: Technical Program Committee
- INDIACom2019, International Conference on Computing For Sustainable Global Development, Bharati Vidyapeeth, New Delhi, India
Dates: March 13-15, 2019
Role: Technical Program Committee

Work done in project undertaken in the Institute:

Development of Software for Maintaining the Research Profile of Faculty Members of IIIT Allahabad (fully automated employing Machine Learning)

Training Programmes organized:

- Workshop Cum Internship Program on Data Analytics and Machine Learning, conducted by Alva's Institute of Engineering & Technology, in Association with IIIT Allahabad, Mijar Campus, Moodbidri, Karnataka, India,
Dates: January 15-29, 2019
Role: Organizer
- National Workshop and summer school, ADASIVA-2018, IIIT Allahabad (Sponsored by DRDO, ISRO, CSIR, MathWorks and IEEE UP Section)
Dates: July 14-28, 2018
Role: Coordinator



Dr Nidhi Mishra

Department & Designation:

Applied Science, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: 11 years Total: 11 years

New courses developed:

Molecular medicine

Books and book-chapters published:

S. No.	Author(s) Name	Title of the Book/Chapter	Publisher	Place and Year of publication	Pages (in case book chapter)
1.	Nishtha Singh, Sonal Upadhyay, and Nidhi Mishra	Handbook of ecomaterials/ Nanocellulose	Springer international	2018	1-18
2.	Debjani Mukherjee, Huma Shamshad, Nidhi Mishra	Nanocarriers for brain targeting/Nanotechnology for brain targeting	Apple Academic Press	2019	69-90
3.	Nidhi Mishra, Kamal Kumar Chaudhary	Drug targets for chalcones in malaria: In silico docking studies	Lambert Academic Press, Germany	2018	1-62

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Shruti Gupta, Aparajita Basu, Anamika Jaiswal and Nidhi Mishra	COMPUTATIONAL METHODS IN DRUG DISCOVERY	IJPSR	9(10)	2018	4102-4108
2	Dhirendra Kumar Bharti, Kamal Kumar Chaudhary, Sarvesh Kumar Gupta, Nidhi Mishra	Computational Identification of Protein Tyrosine Phosphatase IB Inhibitors for checking Type II Diabetes	Research & Reviews: Journal of Medical Science and Technology	6, (3),	2017	21-25
3	Saurav K Mishra, Dhirendra Bharti, , Nidhi Mishra	Vdoc: A Medical Chatbot that Acts as a Virtual Doctor"	Research & Reviews: Journal of Medical Science and Technology	6(3)	2017	16-20

Seminars and invited talks presented:

- Nishtha Singh, Ajeet Kumar Yadav and Nidhi Mishra In silico Docking Studies and potential lead identification against DPP-IV for treatment of Type-II Diabetes, Biosangam 2018 from March 9th-11, MNNIT -Allahabad.
- Sonal Upadhyay, Suraj Kumar Tiwari and Nidhi Mishra, potential lead identification through in silico studies of Pancreatic Lipase proteins, Biosangam 2018 from March 9th-11, MNNIT -Allahabad.
- Akhilesh Kumar Maurya, Shubhangi Chaudhary and Nidhi Mishra, Synthesis of Nano-Composite of Hydroxyapatite using Polymer matrix of PNIPAM and its use in Drugs delivery. 25th National Conference on Liquid Crystals, Department of Material Science, University of Allahabad, December 19-21, 2018.

Conferences attended outside IIIT Allahabad:

- Conference, Venue, Dates, Type of participations, e.g. Chairing Session, presenting invited or contributed paper, panelist in discussion, any other) 1."In silico Docking Studies and potential Lead Identification against JNK3 for Alzheimer's Disease", presented at international Conference on Recent Advancements in Pharmaceutical and health Sciences, June 22-24, 2018 organized by AITCC Bangkok Thailand.
- Delieverd Invited Talk on "Green Chemistry" in the National Conference on Envirrnmental pollution: Burden and Strategies for Control, Organized by Department of Chemistry, Isabella Thoburn College, Lucknow, March 27-28, 2018.
- Delieverd Invited Talk on "Solvatochromic Studies, Molecular Docking and ct-DNA Binding Studies of a Chalcone" in the 5th International Symposium on Microscopy and Spectroscopy, organized by Gebze Technical University, April 24-30, 2018, Fethiye, Turkey.



Dr. Neetesh Purohit

Department & Designation:

Electronics and Communication Engineering, Associate Professor

Teaching/Research/Industry Experience:

Teaching/Research: 16 years Total: 16 years

New courses developed:

Communication Engineering for 1st Sem MTech (ECE)

Research papers published in journals:

- Mahendra K. Shukla, Suneel Yadav, and Neetesh Purohit, "Secure transmission in cellular multiuser two-way amplify-and-forward relay networks," **IEEE Transactions on Vehicular Technology**, Vol. 67. No.12, pp 11886-11899, 2018
- Mahendra K. Shukla, Suneel Yadav, and Neetesh Purohit, "Performance evaluation and optimization of traffic-aware cellular multiuser two-way relay networks over Nakagami-m fading," **IEEE Systems Journal**, vol. 12, no. 2, pp. 1933-1944, June 2018

Average Impact Factor of all publications and name of the major journal in which publication are made:

- IEEE Transactions on Vehicular Technology: IF 5.339
- IEEE Systems Journal: IF 4.463

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

- Mudit Agrawal, Nandkishor Joshi, Neetesh Purohit, "Cooperative Communications Framework for Industrial Applications", **Springer** International Conference on VLSI, Communication and Signal Processing VCAS2018, Nov 29-Dec 1st, 2018, MNNIT Allahabad at Prayagraj.
- Nidhi Verma, Pooja Mishra, Neetesh Purohit, Dharmendra Singh, "Detection of possible water-ice deposits on lunar surface using conformity coefficient: an application of Minisar data" **IEEE** International Geoscience and Remote Sensing Symposium, July 22-27, 2018, VALENCIA SPAIN.

Seminars and invited talks presented:

- Applications of statistical signal processing in wireless networks, TEQUIIP FDP programme at United Group of Institutions, Allahabad, May 1st to 5th, 2018.
- Inclusive Technical education for self-reliance of our nation (a bunch of thoughts of great persons and short stories) National workshop on Inclusive Technical Education in National Context: Challenges and Solutions-2018, MNNIT Allahabad, Sept 13th 2018.
- Significance of the initiative 'Digital India: Power to empower', DST INSPIRE Science Camp, APS University Rewa (MP), Jan 15-19, 2019.
- Utilizing the Online Resources for Imparting the Knowledge, Skills, and Hope in the Students, Training-cum-Workshop on E-learning in Higher Education, FDC (under the scheme of PMMMNMTT, MHRD, Govt. of India), Ishwar Sharan PG College Allahabad University, Prayagraj Feb 7-13, 2019

- The Breakthroughs in Wireless Communications”, Elsevier International Conference on Sustainable Computing in Science, Technology and Management (SUSCOM2019) Feb 26-28, 2019, Amity University Jaipur
- Introduction to Wavelets’ Self financed course-cum-workshop on advancements in Multirate Digital Signal Processing at IIITA, March 8 to March 10, 2019.
- Single rate/multirate applications of the polyphase structures and associated open issues’, Self financed course-cum-workshop on advancements in Multirate digital Signal Processing at IIITA, March 8 to March 10, 2019.
- Introduction to the Multirate Systems’ Self financed course-cum-workshop on advancements in Multirate digital Signal Processing at IIITA, March 8 to March 10, 2019.

Conferences attended outside IIIT Allahabad:

- **Session Chair**, Springer International Conference on VLSI, Communications and Signal Processing, MNNIT, Allahabad Prayagraj, Nov 29th to Dec 1, 2018.

Work done in project undertaken in the Institute:

- **Principal Co-Investigator of the IIITA-AVIRAL**
- Co-Investigator of Design Innovation Center (DIC) spoke of IIT-BHU hub
- **Chairman, centre for short term certification programme (CSTCP)**

Training Programmes organized:

- **Adviser**, Local organizing committee, NAAC Accessor Orientation Programme, IIIT Allahabad Prayagraj, April 30, 2019.
- **Advisory board member**, Industry Academia Conclave, India International Centre, New Delhi, April 18, 2019.
- **Coordinator and Main Teacher**, Self Finance course-cum-workshop on Advanced Multirate Digital Signal Processing, IIITA Prayagraj, March 8-10, 2019

Other Activities:

(a) Technology Developed

- Development of 3D printer (*This technology has been transferred to ITI Mankapur for commercial production*)
- Development of a prototype for alternate technology for information transfer from underwater
- Development of Multi-antenna wireless sensor network node
- Development of Directional ultrasonic speakers
- Development of an improved version of the voting machine

(b) Software Developed

- Improvements in Aviral, FINAPP and ROJAPP

Industry visited and visits to other Institutes for research

- Indian Telecom Industry (ITI) Mankapur
- EXsensor Pvt. Ltd. Bhopal
- Annadatta Mahatta Infotech Pvt. Ltd. Indore

(c) Continuing Education Activities

- Reviewer of many reputed journals and conferences
- Editor-in-Chief of the International Journal of Computer Sciences and Engineering, (a UGC approved, Scholarly Peer-Reviewed Scientific Research Publishing Journal by ISROSET)



(d) Any other important activity not specified above

- Associate Dean (Admission, Assessment and Award)
- Member of Academic Ethics Cell IIT Kanpur
- Member of the Technical Committee of CCMT2018
- Establishing and operating the CSAB2018 Reporting Centre and Help Centre at Lucknow as Centre Incharge
- Centre Incharge CCMT2018 RC at IIITA
- Member, Committee for International Affairs
- Member, IIITA Academic Recruitment Cell (IARC)
- President of IIITA Employee Welfare Society (IEWS)



Dr. Pooja Mishra

Department & Designation:

Department of Electronics and Communication Engineering, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: 5 years Total: 5 year

New courses developed: 02

- Microwave Circuits: EMWC630E
- Smart Antenna: ESAT730E4.

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

S. No	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year	Pages
1	N. Verma, P. Mishra , N. Purohit and D. Singh	Detection of Possible Water-Ice Deposits on Lunar Surface Using Conformity Coefficient: An Application of MiniSAR Data	<i>IEEE International Geoscience and Remote Sensing Symposium</i>	DOI10.1109/IGARSS. 2018. 8518240	22-27 July 2018	4567-4570
2	N. Verma, S. Raj, P. Mishra , N. Purohit	Characterization of Land Surface Using Backscattering Features: An Application of Hybrid Polarimetric RISAT-1 SAR data	<i>IEEE International Geoscience and Remote Sensing Symposium</i>	DOI:10.1109/IGARSS. 2018. 8518251	22-27 July 2018	2439-2442

Conferences attended outside IIIT Allahabad:

- Invited paper presentation on “Flood Mapping Using Synergic Use of Optical and SAR Imagery” in URSI Asia Pacific Radio Science Conference held in New Delhi, India, on March 14 2019.

Work done in project undertaken in the Institute:

- Seed money grant from IIIT Allahabad.

Project Title: Satellite Image Based Soil Moisture Estimation Algorithm Using Minimum Apriori Information

Other Activities:

(a) Technology Developed

- Ground Penetrating Radar at 2.45 GHz



Dr. Pragya Singh

Department & Designation:

Management Studies, Assistant Professor

Teaching/Research Experience:

13 years

Seminars and invited talks presented:

- Resource person for One-week faculty development program (TEQIP Sponsored) on “Total Quality Management” on 06th June 2018, at Rajkiya Engineering College (REC), Azamgarh, UP.

Work done in project undertaken in the Institute:

Completed Seed Money Project on “Advent of Digital Marketing Strategies in Tourism Industry” & Paper communicated to Springer for the Handbook titled “*Indian Business Case Studies: Handbook for Teaching, Research and Practice*”.

Any other important activity not specified above

- Reviewership of Global Journal of Flexible Systems Management, Springer International



Dr. Pramod Kumar

Department & Designation:

Applied Sciences, Associate Professor

Teaching/Research Experience:

07 / 17 years

Research papers published in journals:02

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Faizan Ahmad, Rashmi Singh, Prasanna Kumar Misra, Naresh Kumar, Rachana Kumar and Pramod Kumar	Fabrication of a p-n Heterojunction Using Topological Insulator Bi ₂ Te ₃ -Si and Its Annealing Response.	J. Ele.Mat.,	47	2018	6972
2	Shubhra Dash, A.V. Lukoyanov, Yu.V. Knyazev, Yu. I. Kuz'min, E. D. Baglasov, Bruno Weise, Pramod Kumar, M. Vasundhara, and Ajit K. Patra	Impression of magnetic clusters, critical behavior and magnetocaloric effect in Fe ₃ Al alloys	Physical Chemistry Chemical Physics	21	2019	10823

Average Impact Factor of all publications and name of the major journal in which publication are made: 2.433

Seminars and invited talks presented:

- Topological materials (Bi₂Te₃) thin film preparation and devices fabrication, ANA-2018, MNNIT Allahabad, December 21-23, 2018.
- Anomalous magnetic properties in melt spun LaFe_{11.5}Al_{1.5}, International conference on advanced materials, Jamia Millia Islamia University March 6-7, 2019.



Dr. Prasanna Kumar Misra

Department & Designation:

Electronics and Communication Engineering, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: 5 years Industry: 8 months Total: 5 years 8 months

New courses developed:

- Low Power System Design (ELPD730E)

Research papers published in journals:

- Divyesh Sachan, Manish Goswami and Prasanna Kumar Misra, "A High-Q Floating Active Inductor using 130nm BiCMOS Technology and Its Application in IF Band Pass Filter," Analog Integrated Circuits and Signal Processing 2018, pp. 1-9.
- Divyesh Sachan, Harshbardhan Kumar, Manish Goswami and Prasanna Kumar Misra, "A 2.4 GHz low power low phase-noise enhanced FOM VCO for RF Applications using 180nm CMOS Technology," Wireless Personal Communications 2018, Volume 101, Issue 1, pp 391-403.
- Ahmad, Faizan, Rashmi Singh, Prasanna Kumar Misra, Naresh Kumar, Rachna Kumar, and Pramod Kumar. "Fabrication of a p-n Heterojunction Using Topological Insulator Bi₂Te₃-Si and Its Annealing Response." Journal of Electronic Materials, 47, no. 12, 2018, pp. 6972-6983.
- Jitendra Kumar Mishra, Harshit Srivastava, Prasanna Kumar Misra and Manish Goswami, "Analytical modelling and design of 9T SRAM cell with leakage control technique," Analog Integrated Circuits and Signal Processing 2019, pp. 1-13.

Average Impact Factor of all publications and name of the major journal in which publication are made: 1.0

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

- Awdhesh Pandey, Ankita Verma, and Prasanna Kumar Misra. "A 3.3 dB Noise Figure, 60-mW CMOS Receiver Front End for 865-867 MHz Band." In 2018 Conference on Information and Communication Technology, 2018, pp. 1-6.
- Pranjal Srivastava, Pritesh Kumar Yadav, and Prasanna Kumar Misra. "Design of 32 bit Asynchronous RISC CPU Using Micropipeline." In 2018 Conference on Information and Communication Technology, 2018, pp. 1-5.

Work done in project undertaken in the Institute:

Working as Co-Investigator for the following projects

- Special manpower development program from chip to system design (SMDP-C2SD)
- Low power high speed true random number generator for cryptographic and security applications

Other Activities:

Industry visited and visits to other Institutes for research

- Visited NIT Kurukshetra for MTech thesis Evaluation.
- Visited SRM University for delivering talk in the workshop titled "Workshop on Current Trends in VLSI Testing and Design".



Dr. Pritish Kumar Varadwaj

Department & Designation:

Applied Sciences, Associate Professor & Head of the Dept.

Teaching/Research/Industry Experience:

15 years

Research papers published in journals:

- V. P. Gupta S Singh Y, Kumar H, Raj U, Rao AR, "Identification of Novel Abiotic Stress Proteins in Triticum aestivum Through Functional Annotation of Hypothetical Proteins.," Interdiscip Sci., vol. 10, no. 1, pp. 205–220, 2018.
- P. Mishra S. .. Aier, I. .. Varadwaj, "Integrated Pathways of Candida albicans Revealing Potential Targets and Key Factors Accountable for Pathogenicity," Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci., vol. 8, no. 31, pp. 1–10, 2018.
- M. K. Mishra S Kumar A, Varadwaj PK, "Structure-Based Drug Designing and Simulation Studies for Finding Novel Inhibitors of Heat Shock Protein (HSP70) as Suppressors for Psoriasis.," Interdiscip Sci., vol. 10, no. 2, pp. 271–281, 2018.
- A. Sharma, R. Kumar, I. Aier, R. Semwal, P. Tyagi, and P. Varadwaj, "Sense of Smell: Structural, Functional, Mechanistic Advancements and Challenges in Human Olfactory Research.," Current neuropharmacology, 2018.
- M. Mondal, R. Semwal, U. Raj, I. Aier, and P. K. Varadwaj, "An entropy-based classification of breast cancerous genes using microarray data," Neural Computing and Applications, pp. 1–8, 2018.
- S. Rai, U. Raj, and P. K. Varadwaj, "Systems Biology: A Powerful Tool for Drug Development," Current topics in medicinal chemistry, vol. 18, no. 20, pp. 1745–1754, 2018.
- N. Kumar, S. Gupta, T. Chand Yadav, V. Pruthi, P. Kumar Varadwaj, and N. Goel, "Extrapolation of phenolic compounds as multi-target agents against cancer and inflammation," Journal of Biomolecular Structure and Dynamics, pp. 1–15, 2018.
- P. Kumar, U. Raj, I. Aier, and P. K. Varadwaj, "Decoding methylation patterns in ovarian cancer using publicly available Next-Gen sequencing data," Network Modeling Analysis in Health Informatics and Bioinformatics, vol. 7, no. 1, p. 12, 2018.
- B. Jain, U. Raj, and P. K. Varadwaj, "Drug Target Interplay: A Network-based Analysis of Human Diseases and the Drug Targets," Current topics in medicinal chemistry, vol. 18, no. 13, pp. 1053–1061, 2018.
- P. S. Das et al., "Twelve years of BIOinformatics CLUB for Experimenting Scientists (Bioclues)," PeerJ Preprints, vol. 6, p. e26503v1, 2018.
- S. Gupta, V. Gupta, V. Singh, and P. K. Varadwaj, "Extrapolation of significant genes and transcriptional regulatory networks involved in Zea mays in response in UV-B stress," Genes & genomics, vol. 40, no. 9, pp. 973–990, 2018.
- S. Gupta and P. K. Varadwaj, "A Brief Overview on Molecular Dynamics Simulation of Biomolecular System: Procedure, Algorithms and Applications," International Journal of Pharmaceutical Sciences and Research, vol. 9, no. 4, pp. 1333–1350, 2018.
- S. Mishra, I. Aier, P. Varadwaj, and K. Misra, "Integrated Pathways of Candida albicans Revealing Potential Targets and Key Factors Accountable for Pathogenicity," Proceedings of the National Academy of Sciences, India Section B: Biological Sciences, vol. 7, no. 2, pp. 1–10, 2018.



Seminars and invited talks presented:

- *BSB-2018, International Conference on Systems Biology and Bioinformatics, 26th to 28th October 2018*
- *Workshop on Systems Biology – 28th October 2018*
- *Workshop on Virtual Screening - 13-15th March 2019*
- *En&T 2018 at Moscow as Invited Guest Speaker*

Conferences attended outside IIIT Allahabad:

En&T 2018 at Moscow as Invited Guest Speaker

Work done in project undertaken in the Institute:

- HEMAT: Hindi to English Machine Translation from MeTy 2017-2019

Other Activities:

Software Developed

- HumDLoc: Human Protein Subcellular Localization Prediction Using Deep Neural Network.
- BIOCIRCUIT: A user friendly workflow designer.

Available at <https://bioserver.iiita.ac.in>



Dr. Rahul Kala

Department & Designation:

Information Technology, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: 5 years Total: 5 year

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1.	Kala, R.	On sampling inside obstacles for boosted sampling of narrow corridors	Computational Intelligence	2019	35	430- 447
2.	Apoorva; Gautam, R.; Kala, R.	Motion Planning for a Chain of Mobile Robots Using A* and Potential Field	Robotics	7	2018	article 20
3.	Gautam, R., Jain, H., Poply, M., Jain, R., Anand, M., Kala, R.	Experience based localization in wide open indoor environments	Paladyn, Journal of Behavioral Robotics	9(1)	2018	82-94

Average Impact Factor of all publications and name of the major journal in which publication are made: 0.776

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year	Pages
1.	R. Kala	Increased visibility sampling for probabilistic roadmaps	2018 IEEE International Conference on Simulation, Modeling, and Programming for Autonomous Robots (SIMPAP)		16-19 May 2018	87-92
2.	R. Kala	Dynamic programming accelerated evolutionary planning for constrained robotic missions	2018 IEEE International Conference on Simulation, Modeling, and Programming for Autonomous Robots (SIMPAP)		16-19 May 2018	81-86
3.	V. Malviya and R. Kala	Tracking Vehicle and Faces: Towards Socialistic Assessment of Human Behaviour	2018 Conference on Information and Communication Technology (CICT)		26-28 Oct. 2018	1-6
4.	S. Dumka, S. Maheshwari and R. Kala	Decentralized Multi-Robot Mission Planning Using Evolutionary Computation	2018 IEEE Congress on Evolutionary Computation (CEC)		8-13 July 2018	1-8
5.	R. Kala, A. Khan, D. Diksha, S. Shelly and S. Sinha	Evolutionary Mission Planning	2018 IEEE Congress on Evolutionary Computation (CEC)		8-13 July 2018	1-8
6.	A. Khare, R. Motwani, S. Akash, J. Patil and R. Kala	Learning the Goal Seeking Behaviour for Mobile Robots	2018 3rd Asia-Pacific Conference on Intelligent Robot Systems (ACIRS)		21-23 July 2018	56-60



Seminars and invited talks presented:

- Some buzzwords for Machine Learning in the medical domain and Machine Learning in Robotics, UBL Jakarta, 18th-19th October, 2018 [Online]
- Leveraging the power of Machine Learning in Robotics, JK Institute, Allahabad University, 25th February, 2019
- Mobile Robotics: From School Projects to Real Life, Quantum University, Roorkee, 21st September, 2018
- Robot Motion Planning, Vignan University, Guntur, 17th December, 2018
- Simultaneous Localization and Mapping, Mercedes Benz Research and Development Institute, 14-15 March, 2019.

Conferences attended outside IIIT Allahabad:

- 2018 IEEE International Conference on Simulation, Modeling, and Programming for Autonomous Robots (SIMPAN), Brisbane, Australia, Presenting contributed paper, 16-19 May 2018.
- 2018 IEEE Congress on Evolutionary Computation (CEC), Rio de Janeiro, Brazil, Presenting contributed paper, 8-13 July 2018.

Work done in project undertaken in the Institute:

- Medical Cyber Physical System for lifestyle diseases using Big Data Analytics

The project is about early stage diagnosis of lifestyle diseases using different techniques. This includes diagnosis through a dialogue with the user to identify the disease from the symptoms, and identification of the disease using body vital signals. As the first phase of the project, the data was collected from the patients from a local hospital while the data from the healthy subjects was taken from the institute students. The machine learning was used to classify the subjects as diseased or non-diseased. The main problem was handling data set imbalance. In another module, the ontology was used to model the symptoms to disease mapping. Based on the same, a chat system as designed to diagnose the disease from the symptoms. The main problem is currently the limited patient data, and therefore, the work is being done to model the problem as an anomaly detection using the healthy subjects alone.

- Mission Planning using Sampling based techniques

The problem is to make the mobile robots decipher complex planning tasks called as a mission. The mission may consist of visiting a number of tasks with Boolean and temporal constraints. The work is extended to include sensors and decision making in the presence of sensors that state the presence and absence of the resource of a mission site. First, a custom language is designed to specify the missions which is also polynomial verifiable. Thereafter, evolutionary computation is used to search for a mission solution. Dynamic Programming is used to solve the mission. Sampling based motion planning is used to compute the shortest distance between every mission site. The results are demonstrated on the Pioneer LX robot running using the Robot Operating System. The project has produced 1 SCI paper, 5 conference papers and 2 papers under review. The project is now towards closure.

- Self-Learning Maps

The self-driving cars need to always know the location, known as the problem of localization, and make their own detailed map as they navigate around. The map needs to be made once and can be used for localization for a lifetime, called as the problem of mapping. The problems are solved together and known as the Simultaneous Localization and Mapping. In this project we update the map as it changes along with time. Currently, the project has achieved success in running a state-of-the-art SLAM algorithm. The algorithm uses a ZED stereo vision camera to record the stereo images which are then used to compute the features along with depth. The features are tracked and used to simultaneously register them as a map and compute the vehicle's position based on the features. The library documentation has been thoroughly read and the code flow is understood. The work is also done to integrate a low-resolution 3D laser sensor into the stereo images for better results. The future work involves understanding the semantics of the images and rejecting dynamic obstacles from registration.

- SLAM in Extreme Weather Conditions

The aim of the project is to make Simultaneous Localization and Mapping robust to weather conditions. The images seen by a stereo camera can be blurry in cases of rain and fog. The images can even get affected by the

difference in lightning conditions. As a part of this project, the aim is to enable SLAM even in such adversaries. The main work done as a part of this project so far is to make a campus map under normal circumstances. Thereafter, initial work was to have a utility to save the map, which could be later reimported. The library did not have the functionality and therefore the same was programmed, which worked in the absence of loop closures. The work now uses an alternate library which can load and unload maps. The current work is in two directions. First to learn models that can transform stereo images from one domain to the other. The second is to make spacio-temporal maps and to load the best map for continuous localization.

- **Newgen Innovation & Entrepreneurship Development Centre**

The aim of the project is to inculcate the spirit of entrepreneurship among the current students, by encouraging them to make projects with a commercial value. Through the project, the costs incurrent in development of the project is given to the student group, along with a modest stipend. The centre also conducts numerous events, workshops and competitions. Even though the project is just a year old, 3 products are at a mature stage towards commercialization, 6 products are being developed and 6 products are into an ideation stage. The centre has already organized an ideathon and a hackathon. Surveys of startups and students are done to strategize the project. The aim in the future is to sculpture the ideas towards identification of the market and assessing the market potential, taking steps towards commercialization of the projects, and to inspire the students to come with more innovative ideas about the projects.

- **Technology Incubation and Development of Entrepreneurs**

The aim of the project is to provide mentorship, resources and seed funding support to the startups. The project further aims to inculcate the spirit of entrepreneurship among the youth by organizing a series of workshops for them. As a part of the project, already 7 startups have been provided seed funding support. The startups are in diverse areas including drones, hospitality, healthcare, industry 4.0, smart healthcare devices, social media app for foodies and counselling services. The startups are doing quality research and development and contributing towards providing innovative solutions to modern problems. The project has also organized 2 e-summits which have witnessed some of the finest investors, mentors and experts from the industry. As a result, the project has succeeded in motivating the current students to take entrepreneurship as a career. The startups hosted under the program have received wide media publicity, have generated manpower, and contributed towards women in entrepreneurship.

Other Activities:

(a) Industry visited and visits to other Institutes for research

- Mercedes Benz Research and Development Institute, discussion on the SLAM project, 14-15 March, 2019.
- Addverb Technologies Pvt. Ltd., discussion over the sorting robot project, 10th and 11th July, 2019.



Dr. Rajat Kumar Singh

Department & Designation:

Electronics and Communication Engineering, Associate Professor & Head of the Dept.

Teaching/Research/Industry Experience:

13 Years

Research papers published in journals: 2

- Prashant Singh, Rajesh Kumar Jha, Rajat Kumar Singh and B. R. Singh, "Preparation and characterization of Al₂O₃ film deposited by RF sputtering and plasma enhanced atomic layer deposition," *Journal of Vacuum Science & Technology B*, Vol.36, No.4, pp.04G101, 2018.
- Prashant Singh, Rajesh Kumar Jha, Rajat Kumar Singh and B. R. Singh, "On the structural and electrical properties of metal-ferroelectric-high k dielectric-silicon structure for non-volatile memory applications," *Bulletin of Materials Science (Springer)*, 41:101, 2018.

Average Impact Factor of all publication and name of the major journal in which publication are made:

approx. 2 (21 Journals) IEEE, Elsevier, Springer, Taylor & Francis

Research papers published in conference proceedings (as a full paper): 5

- Akhilesh Panchal and **Rajat Kumar Singh**, "Energy Efficient Cluster Head Selection with Adaptive Threshold in WSN," *IEEE ISPACS 2018*, Ishigaki-Okinawa, Japan, Nov, 2018.
- Soumit Samaddar Chaudhury, Seema Awasthi and **Rajat Kumar Singh**, "Substrate Integrated Waveguide based Dual Mode Bandpass Filter using metal via and complementary split ring resonators," *IEEE IMArc 2018*, Kolkata, Nov, 2018.
- Manoj Tolani, Sunny Sharma and **Rajat Kumar Singh**, "Energy-efficient Aggregation-aware IEEE 802.15.4 MAC Protocol for Railway, Tele-medicine & Industrial Applications," *IEEE UPCON 2018*, MMMUT-Gorakhpur, Nov, 2018.
- Soumit Samaddar Chaudhury, Seema Awasthi and **Rajat Kumar Singh**, "Tuning of Passband in Compact Substrate Integrated Waveguide Bandpass Filter by Controlling Higher Order Modes," *IEEE UPCON 2018*, MMMUT-Gorakhpur, Nov, 2018.
- Ajay Kumar Tiwari, Seema Awasthi and **Rajat Kumar Singh**, "A Leaky-Wave Antenna With Improved Directivity and Scanning Range," *IEEE UPCON 2018*, MMMUT-Gorakhpur, Nov, 2018.

Conferences attended outside IIIT Allahabad: 1

- International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS-2018) during 27-30 Nov'18 at Ishigaki Island, Okinawa, Japan.



Dr. Ranjit Singh

Department & Designation:

Management Studies, Associate Professor

Teaching/Research Experience:

16 years

New courses developed:

Behavioural Finance

Books and book-chapters published:

S. No.	Author(s) Name	Title of the Book/Chapter	Publisher	Place and Year of publication	Pages (in case book chapter)
1	Sujit Deb and Ranjit Singh	Mutual Fund Investment by Salaried Investors: Identifying the Determinants	Notion press	New Delhi, 2018	
2	Mousumi Choudhury and Ranjit Singh	Bancassurance Business in India	Notion press	New Delhi, 2018	
3	Arijit Pathak, Ranjit Singh and B. Srivastava	A Typical Study on the Journey of Rakesh Sharma's Life as an Entrepreneur	Bharti Publications	New Delhi, 2018	159-167

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Dinesh Agarwalla, Ranjit Singh and Mousumi Choudhury	Investment Preference for Physical and Non-Physical Form of Gold: A Study on Marwari Businessmen in Guwahati City	Pacific Business Review International	10 (12)	2018	85-91
2	Chanchala Tiwari and Ranjit Singh	Perception of English Language Teachers towards the use of ICT for Teaching English: an Empirical Study	Pacific Business Review International	10 (12)	2018	7-19
3	Sujit Deb and Ranjit Singh	Risk perception dynamics of mutual fund investment decisions.	Iranian Journal of Management Studies	11(2)	2018	407-426
4	Ranjit Singh and Jayashree Bhattacharjee	Measuring Equity Share related Risk Perception of Investors in Economically Backward Region	Risks	7 (1)	2019	12
5	Kamalesh Kumar Mishra & Ranjit Singh	Industrial Revival by Strategic Implementation of Total Quality Management (TQM): An Empirical Examination.	Journal of Emerging Technologies and Innovative Research	5 (12)	2018	553-561
6	Kamalesh Kumar Mishra & Ranjit Singh	Implementation of TQM in Transmission Line Tower Manufacturing	International Journal of Advance and Innovative Research	5 (4)	2018	43-50
7	Onam Jindal, Ranjit Singh and Nigamananda Biswas	Perception of Labourers' of the Tea Estates towards the Implementation of Welfare Facilities under the Factories Act, 1948	International Journal of Research in Management and Social Science	6 (2)	2018	111-119



Seminars and invited talks presented:

- Singh Ranjit (2019). Measuring Awareness about Mutual Funds: A Study on Bank Employees. National Conference on Innovative Business Practices organised by Banaras Hindu University on 2nd March 2019
- Singh Ranji and Singh Manas (2018). Service Quality in Indian Banking Industry with respect to Information Security: An IT-governance Framework. International Conference on Recent Trends in Computational Engineering and Technologies, organized by Department of Computer Science and Engineering, Raja Rajeswari College of Engineering in association with IEEE Bangaluru Section on 17th and 18th of May 2018 [**IEEE Conference**]

Training Programmes organized:

- 2nd Summer School on Behavioural Finance from 14th June to 21st June 2019



Dr. Ratan Kumar Saha

Department & Designation:

Applied Sciences, Assistant Professor

Teaching/Research Experience:

12 years

New courses developed:

Developed Biomedical Imaging Laboratory

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1.	Panjikaj Warbal, Manojit Pramanik and Ratan K Saha	<i>Impact of sensor apodization on the tangential resolution in photoacoustic tomography</i>	Journal of the Optical Society of America A	36 (2)	2019	245-252
2.	Anuj Kaushik, Deepak Sonker and Ratan K Saha	<i>Study on angular distribution of differential photoacoustic cross-section and its implication in source size determination</i>	Journal of the Optical Society of America A	36 (2)	2019	387-396

Average Impact Factor of all publications and name of the major journal in which publication are made: 1.861

Seminars and invited talks presented:

- *Fundamentals of biomedical photoacoustics*, Workshop on Machine Learning for Medical Image Analysis, IIT Kharagpur, India, Sept. 17-21, 2018. (Invited lecture)
- *Photoacoustic signals, analysis and imaging*, Workshop on Machine Learning for Medical Image Analysis, IIT Kharagpur, India, Sept. 17-21, 2018. (Invited lecture)
- *Introduction to ultrasonic imaging*, One Week Short Term Course on Signal and Image Processing for Medical Applications, TEQIP III sponsored, VNIT Nagpur, India, Feb. 21, 2019. (Invited lecture)
- *Basics of biomedical photoacoustics*, One Week Short Term Course on Signal and Image Processing for Medical Applications, TEQIP III sponsored, VNIT Nagpur, India, Feb. 21, 2019. (Invited lecture)

Conferences attended outside IIT Allahabad:

- Chairing Session: Biomedical photoacoustics, WESPAC, CSIR-NPL, New Delhi, November 11-15, 2018.



Dr. Rekha Verma

Department & Designation:

Electronics and Communication Engineering, Assistant Professor

Teaching/Research/Industry Experience:

Teaching: 05 years Total: 05 years

New courses developed:

Fundamentals of Nanoscale Devices

Seminars and invited talks presented:

- “Modeling and Simulation of Advanced Semiconductor Devices & VLSI Circuits” G. B. Pant Institute of Engineering and Technology, Pauri Garhwal, Uttarakhand, India, June 25-29, 2018.
- “Electro-Thermal Management in Integrated Circuits”, Development Programme on VLSI for Signal Processing and Communication at SIET Allahabad, Uttar Pradesh, India, July 16-20, 2018.

Conferences attended outside IIIT Allahabad:

- 38th International Conference on thermoelectrics and 4th Asian Conference on Thermoelectrics, June 30-July 4, 2019, Gyeongju, Korea, Paper presented on “Ab-initio Study of Lattice Anharmonicity in Bulk Lonsdaleite: Hexagonal Diamond”.

Work done in project undertaken in the Institute:

- Silicon Nanowires: Professional Compact Model of Scale Thermoelectric Figure of Merit for Energy Harvesting”, Principle Investigator: Dr. Rekha Verma, funded by Young Scientist Scheme, DST, Govt. of India, (Duration: 2016-2019), Grant sanctioned: INR, 23 Lacs (appx). Status: Completed.

Other Activities:

(a) Technology Developed

- Prototype developed for “Sorting Mechanism based on Size and Color” for Industrial and Domestic use.

(b) Awards and Honors

- Young Scientist Grant Award from Science and Engineering Research board (SERB) Govt. of India, July 2016-2019.

(c) Participation in the High Level Industry, Academia Interaction Programme during summer

- Participated and presented research work at Summer School on Advanced Materials and Molecular Modelling, September 15-20, 2019, Ljubljana, Slovenia organized by Quantum Espresso Foundation, MAX:Driving the Exascale Transistor and Jožef Stefan Institute, Ljubljana.



Dr. Sangeeta Singh

Department & Designation:

Applied Sciences, Assistant Professor

Teaching/Research/ Experience:

09 years

Books and book-chapters published:

S. No.	Author(s) Name	Title of the Book/Chapter	Publisher	Place and Year of publication	Pages (in case book chapter)
1	Sangeeta Singh , Shilpi Verma, Swechha Mishra, Shikha Jaggi and Shruti Gupta	Bioinformatics tools in drug discovery. Emerging trends and challenges in biosciences.	Daya Publishing House, Division of Astral International Pvt. Ltd.	(2018)	ISBN: 978-93-5124-988-7 (HB)

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Swechha Mishra, Sonia Chadha, Sayali mukherjee, Sangeeta Singh	Comparative Studies on the Antioxidant enzymes in Bone Marrow Precursor cells and mature Rat Polymorphonuclear Leukocytes	Global Journals of Medical Research: K Interdisciplinary	Vol 18	2018	No 3-K.
2	Sonali Mishra, Sumit Kumar Rastogi, Sangeeta Singh , Sneha Lata Panwar, Nikhat Manzoor, Manoj Kumar Shrivash, Krishna Misra,	Controlling pathogenesis in Candida albicans by targeting Efg1 and glyoxylate pathway through naturally occurring polyphenols.	Molecular Biology Reports,		2019	doi: 10.1007/s11033-019-05014-z

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year	Pages
1	Princy Choudhary , Arpit Jaiswal , Sangeeta Singh, Saurabh Kumar Gupta.	Bacterial cellulose based composites: Preparation and Characterization	International Conference on Processing and Characterization of Materials	184	2018-12-06 - 2018-12-08	38



Dr. Shailendra Kumar

Department & Designation:

Management Studies, Associate Professor

Teaching/Research/Industry Experience:

Teaching/Research: **17 Years** Total: **17 Years**

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Arora, L., Kumar, S., and Verma, P.	<i>The Anatomy of Sustainable growth rate of Indian Manufacturing Firms</i>	<i>Global Business Review (Sage Publication)</i>	Vol. 19, No. 4,	May, 2018	pp. 1-22.
2	Arora, L., Kumar, S., and Verma, P.	<i>Revisiting the Asset Pricing Paradigm using Sustainable Growth Rate</i>	<i>International Journal of Economics and Business Research (Inderscience)</i>	Vol. 16, No. 1,	June, 2018	pp. 46-62.
3	Agarwal, S., Kumar, S., and Goel, U.	Stock Market Response to Information Diffusion through Internet Sources: A literature review	<i>International Journal of Information Management (Elsevier Publication)</i>	Vol. 45, No. 2,	November, 2018	pp. 118-131

Average Impact Factor of all publications and name of the major journal in which publication are made:

International Journal of Information Management (Elsevier Publication) (5 year Impact Factor 6.327) SSCI Indexed

Work done in project undertaken in the Institute:

- Having IITA Sponsored seed money Research Project titled “*Stock Market Response to Information Diffusion through Internet Sources: An empirical Study in Indian Context*” since November, 2017. (Work in progress)
- Having ICSSR Sponsored Research Project titled “*Realisation of Pradhan Mantri Jan Dhan Yojna (PMJDY) Objectives towards Financial Inclusion: A Review of Purvanchal U.P. Region*” since March, 2019.

Training Programmes organized:

- Organized and Conducted a 2-day Certificate Programme on the topic “**Research Modelling using Excel and R**” on 08-09th March, 2019 at Department of Management Studies, Indian Institute of Information Technology (IITA) Allahabad.



Dr. Shashi Kant Rai

Department & Designation:

Management Studies, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: 09 years Total: 09 years

Seminars and invited talks presented:

- Summer School on Behavioural Finance, IITM 14th to 21st June 2019

Training Programmes organized:

Summer School on Behavioural Finance 14th to 21st June 2019



Dr. Sintu Kumar Samanta

Department & Designation:

Applied Sciences, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: 6.5 years Total: 6.5 years

New courses developed:

Engineering Biology (SENB630E)

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Ghosh P, Rameshbabu AP, Das D, Subramanian B, Samanta SK, Roy S, Pal S, Ghosh SK, Dhara S	Single-pot biofabrication of living fibers for tissue engineering applications	Journal of Materials Research	33(14)	2018	2019-2028
2	Gautam PK, Singh A, Misra K, Sahoo AK, Samanta SK	Synthesis and applications of biogenic nanomaterials in drinking and wastewater treatment	Journal of Environmental Management	231	2019	734-748
3	Banerjee D, Shivapriya PM, Gautam PK, Misra K, Sahoo AK, Samanta SK	A review on basic biology of bacterial biofilm infections and their treatments by nanotechnology-based approaches	Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.	https://doi.org/10.1007/s40011-018-01065-7	2019	-

Average Impact Factor of all publications and name of the major journal in which publication are made: 2.7668

- Molecular and Biochemical Parasitology
- Journal of Biomedical nanotechnology
- Journal of Colloid and Interface Science
- Journal of Biological Chemistry, Mol. BioSyst
- Journal of Environmental Management

Conferences attended outside IIIT Allahabad:

- Gautam PK, Samanta SK*. Biogenic preparation of magnetic nanoparticles and their application for the aqueous phase removal of azo dyes. IEEE Technical Co-Sponsored International Conference on Engineering Science & Advance Research (ESAR'19) held on March 13-15, 2019 at Rama University, Kanpur (Oral presentation by Dr Gautam).
- Gautam PK, Samanta SK*. Biogenic synthesis of magnetic nanoadsorbents and their use for the aqueous phase removal of lead. 3rd International conference on Science and Engineering of materials (ICSEM-2019), held on 19-21 July, 2019 at Sharda University, Greater Noida (Oral presentation by Dr Gautam).

Work done in project undertaken in the Institute:

Title of our project: "Development of a Novel Nanocomposite to Combat the Biofilm Infections".

- (a) The synthesis protocols of Ag NCs and fluorescent C-dots have been standardized. Now we are in the process of characterization of the above nanomaterials.

- (b) We have procured four bacterial strains from MTCC which will be useful for the study of the antibiofilm activity of the composite of Ag NCs and fluorescent C-dots.
- (c) We have standardized the protocol for biofilm formation and quantification in our laboratory.
- (d) We have already procured few instruments like Centrifuge, UV-Transilluminator, Refrigerator, Micro-pipette sets, Fluorescence spectroscopy and Deep Freezer. There are few more equipments which are under the process of procurement.



Dr. Sonali Agarwal

Department & Designation:

Information Technology, Associate Professor

Teaching/Research/Industry Experience:

Teaching/Research: 18 Total: 18

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1.	Bakshi Rohit Prasad, Sonali Agarwal	Scalable Least Square Twin Support Vector Machine Learning	International Conference on Big Data Analytics and Knowledge Discovery,	11708	2019	239-249
2.	Sayantan Nath, Sonali Agarwal , GN Pandey	Modeling of Temperature Data of Coal Samples by Event-Time Continuum Analysis	OmniScience: A Multi-disciplinary Journal	6	2019	16-35

Average Impact Factor of all publications and name of the major journal in which publication are made: 3

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

Sl. No	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year	Pages
1	Narinder Singh Punn, Sonali Agarwal	Testing Concept Drift Detection Technique on Data Stream	International Conference on Big Data Analytics	11297	2018	89-99
2	Dhwaj Verma, Sonali Agarwal	Cardiac Arrhythmia Detection from Single-lead ECG using CNN and LSTM assisted by Oversampling	2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI)	doi: 10.1109/ICACCI. 2018. 8554541	2018	14-17
3	Sonali Agrawal, Sanjay Kumar Sonbhadra, Sonali Agarwal	Favour prediction of Taxi services using real-time visualization	2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI)	DOI: 10.1109/ICACCI. 2018. 8554632	2018	2276-2282
4	Devender Kaushik, Bakshi Rohit Prasad, Sanjay Kumar Sonbhadra, Sonali Agarwal	Post-Surgical Survival Forecasting of Breast Cancer Patient: A Novel Approach	2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI)	Doi: 10.1109/ICACCI. 2018. 8554745	2018	37-41
5	Shaiwal Sachdev, Abhishek Agrawal, Shubham Bhendarkar, Bakshi Rohit Prasad, Sonali Agarwal	Movie Box-Office Gross Revenue Estimation	Recent Findings in Intelligent Computing Techniques	709	2018	9-17

Seminars and invited talks presented:

- Delivered an invited Talk on “Basics of Data Stream Processing” at UBL Jakarta in an International Workshop on Distributed Machine Learning for Big Data on September 16, 2019.
- Delivered an Invited Talk on “Data Stream Processing using Spark” in Faculty Development Program on Artificial Intelligence and Machine Learning at Global Academy of Technology (GAIT), Bangalore, July 1-13, 2019
- Delivered an Invited Talk “Big Data Tools and Techniques” on 5 Days Workshop on Machine Learning and Big Data Analytics at Global Academy of Technology, Bangalore, April 18-05 May 2019
- Delivered a keynote talk on “Data Stream Processing” in 2018 5th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI 2018) at Malang, Indonesia on October 16, 2018.
- Delivered a keynote talk on “Data Stream Processing” in 2018 5th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI 2018) at Malang, Indonesia on October 16, 2018.
- Delivered invited talk in on “Complex Event Processing for Real-Time Processing” in DataGovAI 2018 at Jakarta on October 17, 2018 For more information.
- Delivered an invited talk on “Medical Cyber-Physical System for lifestyle diseases using Big Data Analytics” in 2 Days International Workshop on Big Data Analytics and Machine Learning at Universitas Budi Luhur Jl. Jakarta Indonesia., during October 18-19, 2018.

Work done in project undertaken in the Institute:

- Medical Cyber-Physical System for lifestyle diseases using Big Data Analytics
- Project scheme/Agency: ASEAN-India Science & Technology Development Fund (AISTDF), ASEAN-India collaborative R&D program (From February 2018 to January 2021)
- Real Time Complex Event Processing and Analytics for Smart Buildings
- Project scheme/Agency : Call for proposal under the Interdisciplinary Cyber Physical Systems (ICPS) program. Government of India Ministry of Science & Technology Department of Science & Technology Interdisciplinary Cyber Physical Systems (ICPS) Division. (From February 2019 to January 2022)

Stream Analytics for Processing Big Data in motion for Real Time Responses,

- Funding Agency, IIIT Allahabad. (From February 2018 to January 2021)

Training Programmes organized:

- Organizing IEEE CIS Summer School 2019, “Big Data Analytics and Stream Processing: Tools, Techniques and Application” during August 10 - 14, 2019 at Indian Institute of Information Technology Allahabad, India.
- Organizing special sessions/issue Special Session on “Non-parallel Support Vector Machine Classifiers” at IEEE SMC 2019, Bari, Italy.
- Organizing International Conference on Machine Intelligence and Signal Processing (MISP-2019) will be held at Indian Institute of Technology, Allahabad, India, on September 7-10, 2019.
- Organized special sessions/issue Special Session on “Computational intelligence for biomedical data and imaging” in IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2018) at Bengaluru, India during November 18-21, 2018
- Conducted a self-financed short-term course titled “Real-Time Stream Analytics and Machine Learning for Cyber-Physical Systems (RTSML4CPS)”. This proposed workshop will be hosted in conjunction with the International Conference on Distributed Computing and Networking (ICDCN 2018) at IIT BHU During January 4-7, 2018.

Other Activities:

(a) Software Developed

Name of the software: Emotion Recognition System



Dr. Soumyadev Maity

Department & Designation:

Information Technology, Assistant Professor

Teaching/Research/Industry Experience:

5.5 years

New courses developed:

Title: Intrusion Detection Systems

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year	Pages
1	S. Sultana, F. Altaf, M. K. Aditia, M. Sai Burra, C. Maurya, and S. Maity	Detection of Beacon Transmission Denial Attack in ITS Using Temporal Auto-correlation and Random Inspections	20th ACM International Conference on Distributed Computing and Networking (ICDCN 2019), Bangalore, India.	DOI: 10.1145/3288599.3288616	January 4-7, 2019.	pp. 317-326
2	M. K. Aditia, F. Altaf, M. R. Singh, M. S. Burra, C. Maurya, S. S. Sahoo, and S. Maity	Optimized CL-PKE with lightweight encryption for resource constrained devices.	20th ACM International Conference on Distributed Computing and Networking (ICDCN 2019), Bangalore, India.	DOI: 10.1145/3288599.3296014	January 4-7, 2019.	pp. 427-432
3	F. Altaf, M. K. Aditia, E. Saini, B. Rakshit and S. Maity	Privacy-Preserving Lightweight Searchable Encryption for Cloud Assisted e-Health System	International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET 2019), Kalavakkam, Tamil-Nadu, India.	In Press	March 21-23, 2019.	In Press
4	R. Dewangan, F. Altaf and S. Maity	Certificateless Aggregate Message Authentication for Hierarchical Trusted Authority based VANET	3rd IEEE International Conference on Computing Methodologies and Communication (ICCMC-2019), Erode, India.	DOI: 10.1109/ICCMC.2019.8819737	March 27-29, 2019.	pp. 429-434
5	Vasudha, F. Altaf and S. Maity	Linearly Homomorphic Signature Based Secure Computation Outsourcing in Vehicular Adhoc Networks	IEEE International Conference on Innovations in Power and Advanced Computing Technologies (i-PACT-2019), Vellore, India.	In Press	March 22-23, 2019.	In Press

Seminars and invited talks presented:

- Title:** "Security in Safety Critical Cyber-Physical System"
- Event & Organization:** National Workshop on Evolving Drifts in Computer Science (NWEDCS) organized by Rajkiya Engineering College, Ambedkar Nagar, U.P. India, sponsored by TEQIP-III.
- Date:** July 9-13, 2018



Dr. Srijit Bhattacharjee

Department & Designation:

Applied Sciences, Assistant Professor

Teaching/Research/Industry Experience:

Teaching 3 years and Research 10 years Total: 13 yrs

New courses developed :

General Relativity (SGNR240E)

Research papers published in journals:

Sr No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	page
1	Srijit Bhattacharjee and Arpan Bhattacharyya	Soldering freedom and Bondi-Metzner-Sachs-like transformations	Physical Review D	Vol-98 No-10	2018	104009
2	Srijit Bhattacharjee, Bidisha Chakrabarty, David D K Chow, Partha Paul and Amitabh Virmani	On late time tails in an extreme Reissner-Nordström black hole: frequency domain analysis	Classical and Quantum Gravity	Vol-35 No-20	2018	205002

Average Impact Factor of all publications and name of the major journal in which publication are made:

Phys Rev D- 4.394 and Class. Quantm. Grav.- 3.487

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

NA

Seminars and invited talks presented:

- Inner horizon instability of black holes*, Bremen-Oldenburg Relativity seminar, University of Oldenburg, on 18 June, 2018.
- Inner horizon instability of black holes*, seminar delivered AEI, Potsdam, Germany, on 12 June, 2018.
- Mass inflation instability in Black Holes*, seminar delivered at AEC, University of Bern, Switzerland, on 29 May, 2018.

Conferences attended outside IIIT Allahabad

IAGRG-2019, at BITS Hyderabad between January 3-5, 2019.

Oral presentation on *Soldering freedom and BMS-like symmetries* in Classical Gravity session. Date- 3 Jan 2019.7.

Work done in project undertaken in the Institute:

- Institute project: "Probing Interior Structure of AdS Black Holes" has been under investigation. One paper published (mentioned in the publication list no 2)
- ECR-Project (Funded by SERB, Govt. of India) title-"Near Horizon Structure of Black Holes"
- First paper in the list of published papers is related to this project.

Training Programme organized:

Workshop on (ExpEYES), Interfacing Physics Experiments to Convert your PC into Physics Laboratory, 21-22 April, 2018.



Dr. Sudipta Das

Department & Designation:

Management Studies, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: 04 years Industry: 11 years Total: 15 years

New courses developed:

FinTech in Business Intelligence

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Sudipta Das	Asset Pricing Test Using Alternative Sets of Portfolios: Evidence from India	Asia-Pacific Financial Markets	26	2019	339-354



Dr. Sumit Kumar Upadhyay

Department & Designation:

Applied Sciences, Assistant Professor

Teaching/Research Experience:

04 years 10 months (till March 31, 2019)

Seminars and invited talks presented:

Delivered an invited talk on “On an algebraic analogue of the Cohomotopy group” in Asia Australia Algebra Conference.

Conferences attended outside IIIT Allahabad:

Asia Australia Algebra Conference held at Western Sydney University, Sydney, Australia from January 21, 2019 – January 25, 2019

Other Activities:

Visited IISER, Pune during June 10, 2018 – June 15, 2018.



Dr. Suneel Yadav

Department & Designation:

Electronics and Communication Engineering, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: 4.2 years Industry: 04 months Total: 4.6 years

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1.	Mahendra Kumar Shukla, Suneel Yadav, and Neetesh Purohit	Joint Impact of Co-Channel Interference and Channel Estimation Error on Outage Performance of Cellular Two-Way Relay Networks	Springer-Wireless Personal Communications	DOI:10.1007/s11277-018-5838-7	2018	
2	Anshul Pandey and Suneel Yadav	Physical Layer Security in Cooperative AF Relaying Networks with Direct Links Over Mixed Rayleigh and Double-Rayleigh Fading Channels	IEEE Transactions on Vehicular Technology	67(11)	2018	10615-10630
3	Anshul Pandey and Suneel Yadav	Performance Evaluation of Amplify-and-Forward Relaying Cooperative Vehicular Networks Under Physical Layer Security	Transactions on Emerging Telecommunications Technologies	DOI: 10.1002/ett.3534	2018	
4	Mahendra Kumar Shukla, Suneel Yadav, and Neetesh Purohit	Secure Transmission in Cellular Multiuser Two-Way Amplify-and-Forward Relay Networks	IEEE Transactions on Vehicular Technology	67(12)	2018	11886-11899
5	Anshul Pandey and Suneel Yadav	Physical Layer Security for Cellular Multiuser Two-Way Relaying Networks with Single and Multiple Decode-and-Forward Relays	Transactions on Emerging Telecommunications Technologies	DOI.10.1002/ett.3639	2019	

Average Impact Factor of all publications and name of the major journal in which publication are made

IEEE Transactions on Vehicular Technology: IF 5.339

Wireless Personal Communication, Springer: IF 0.929

Transactions on Emerging Telecommunications Technologies: IF 1.258

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year	Pages
1	Anshul Pandey and Suneel Yadav	Secrecy Performance of Cellular Multiuser Two-Way Decode-and-Forward Relay Networks	Conference on Information & Communication Technology		26-28, December 2018	1-6
2	Anshul Pandey and Suneel Yadav	Physical Layer Security for Cooperative Vehicular Amplify-and-Forward Relay Networks	Conference on Information & Communication Technology		26-28, December 2018	1-6

Training Programmes organized:

1. Organized Robowar event in Aparoksha, 2019 from 29th-31st March, 2019, at IIIT Allahabad.
2. Organized TopBot 4.0 Robotics event in Aparoksha, 2019 from 29th-31st March, 2019, at IIIT Allahabad.
3. Organized Business Hackathon and B-Plan Contest from 8th-10th March, 2019 at IIIT Allahabad.
4. Organized Prototype 1.0 Hackathon from 18th and 19th October 2018 at IIIT Allahabad.
5. Organized a Summer Camp on Internet of Things & Unmanned Aerial Vehicle during 01-10 June, 2018 at IIIT Allahabad.

Other Activities:**(a) Technology Developed**

1. Spraying Drone
2. Smart Pet Collar PI: Dr. Suneel Yadav
3. Wearable Obstacle Avoidance Electronic Travel Aid for Visually Impaired using
4. Vibrotactile Haptic and Audio Feedback
5. Smart Soil Monitoring Device
6. Hand Gesture Recognition and Voice Conversion System
7. IoT Based Child Safety Device
8. Crop Nutrition Deficiency Sensing System
9. Real Time Control of a Vehicular Robot using EEG signals
10. Communication between devices in absence of cellular signal (Portena)
11. Safety Autonomous Module (S.A.M)
12. Self-Balancing Robot



Dr. Sunny

Department & Designation:

Electronics and Communication Engineering, Assistant Professor

Teaching/Research/Industry Experience:

4.4 years

New courses developed:

10 Lab experiments for new course (Fundamentals of Electrical and Electronics Engineering) are developed for B. Tech -1st Year.

Lab experiments for new course (Introduction to Microelectronics) are developed for M.Tech. 1st year and B.Tech 4th year.

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1.	Ajay Beniwal, Praveen Kumar Sahu, Sunny	Sol-gel spin coating assisted room temperature operated nanostructured ZnO ethanol sensor with behavior transformation	<i>Journal of Sol-Gel Science and Technology,</i>	vol. 88, Issue 2,	November, 2018	pp 322–333,
2.	Ajay Beniwal, Vibhu Srivastava, Sunny	Sol-gel assisted nano-structured SnO ₂ sensor for low concentration ammonia detection at room temperature	<i>Material Research Express,</i>	vol. 6,	January, 2019	pp. 046421,
3.	Ajay Beniwal, Sunny	Highly selective and sensitive O ₂ plasma treated sputtered thin film sensor for sub-ppm level NH ₃ detection at room temperature	<i>Journal of Materials Science: Materials in Electronics,</i>	vol. 30, Issue 3,	February, 2019	pp 3144–3155,
4.	Mirgender Kumar, Anuj Kumar, Sunny , and Si-Hyun Park	Single-Crystalline ZnO/Graphene Quantum Dots Phosphors-Converted White Light-Emitting Diodes	<i>IEEE Photonics Technology Letters,</i>	vol. 31, no. 3,	February, 2019	pp. 203-205,
5.	Ajay Beniwal, Sunny	Apple fruit quality monitoring at room temperature using sol-gel spin coated Ni-SnO ₂ thin film sensor	<i>Journal of Food Measurement and Characterization,</i>	vol. 13, issue 1,	March, 2019	pp 857–863,

Average Impact Factor of all publications and name of the major journal in which publication are made.

- *Journal of Sol-Gel Science and Technology*, (Impact Factor - 1.986)
- *Material Research Express*, (Impact Factor - 1.449)
- *Journal of Materials Science: Materials in Electronics*, (Impact Factor - 2.195)
- *IEEE Photonics Technology Letters*, (Impact Factor - 2.553)
- *Journal of Food Measurement and Characterization*, (Impact Factor - 1.415)

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year
1.	M.Tolani, Sunny , R.K.Singh	Energy-efficient Aggregation-aware IEEE 802.15.4 MAC Protocol for Railway, Tele-medicine & Industrial Applications	2018 IEEE 5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2018), Gorakhpur		2-4 Nov 2018
2.	Ajay Beniwal, Praveen K. Sahu and Sunny*	Enhanced Sensing Performance of Nanostructured SnO ₂ Sensor through Oxygen Plasma Treatment	IEEE SENSORS 2018 , (17th IEEE Conference on Sensors), New Delhi, India.		28-31 October, 2018

Title: Invited talk: Under the aegis of TEQIP.

Delivered an invited talk on 'Solution based Thin Film Processing' on 19th July, 2018, in the Department of Electronics and Communication, Shambhunath Institute of Engineering and Technology (SIET), Allahabad, affiliated from Dr. A. P. J. Abdul Kalam Technical University, Lucknow for faculty development program on VLSI for Signal Processing and Communication held from 16th to 20th July, 2018 under the aegis of TEQIP-III.

Title: Invited Talk: MOSFET-Past, Present and Future.

Delivered an invited talk in Summer Training Program on VLSI Design held from 11th June to 9th July 2018, 7th in the Department of Electronics and Communication Engineering, IIITAllahabad.
Date of Invited Talk: 07th July, 2018.

Title: Delivered two talks on Thin Film Technologies.

Delivered two talks on Thin Film Technologies during A 3-Day Workshop on Thin Film Technologies as a Convener, during 6th - 8th June 2018 organized in the Department of Electronics and Communication Engineering, Indian Institute of Information Technology, Allahabad funded by our OSA-IIITA Student Chapter program.
Date of Talk: 06th and 7th June, 2018.

Title: invited Talk: Introduction to VHDL: From Programming to Synthesis.

Delivered an invited talk in Self-financed course-cum-workshop on Advancements in Multirate Digital Signal Processing. Also, 2 hours Lab session was conducted on VHDL Synthesis.
Date of Invited Talk: 09th and 10th March, 2019.

Work done in project undertaken in the Institute:

Sponsored Project-1

- Title: Investigations on Chalcogenide Photodetectors
Budget: 52.48 lacs
Duration: 3 years
Sponsored by: SERB, Department of Science and Technology (DST), Ministry of Science and Technology, India
Start Date: 09 October 2017

Brief Summary of the Project:

This research proposal aims to study the various properties of the photodetector devices made up of chalcogenide materials for crucial application of photo-detection. The investigations incorporate the design, simulation, fabrication and testing of chalcogenide photodetectors for some crucial parameters like good responsivity, efficiency and good photoluminescence from visible to NIR range. The successful outputs of the proposed investigation may have huge scope in optoelectronic applications, all-photonic system interfaces, integrated optical circuits and for low cost tunable photodetectors.

Journal Paper Published under DST Project: 3 (SCI)

Conference Published Under DST Project: 1

Journal Paper Communicated under DST Project: 2 (SCI)

Ph.D. ongoing under DST project: 2 (1 about to complete)



M.Tech Thesis completed under DST Project: 1

Sponsored Project-2

- Title: Investigations on Conducting Polymer based Gas Sensors for Industrial Applications
Duration: 3 years
Budget: 10 lacs
Start Date: May 2017
Sponsored by: IITAllahabad, India (for One-Time Seed Money Grant)

Brief Summary of the Project:

The conducting polymer and metal oxides based gas sensors are being investigated for detection and concentration estimation of hazardous gases like NH_3 , H_2S , CH_4 , CO , NO_2 and VOCs with high selectivity and sensitivity at lower temperature (or RT) with ultra-low concentration detection ability. After successful fabrication of single sensor element, sensor array may be developed for Electronic-Nose (E-Nose) applications, which may be further investigated for industrial use. The successful output of the proposed work may have much industrial, agriculture, environmental, medical and domestic applications.

- SCI Journal paper Published: 06
- SCI Journal paper Communicated: 03
- Conference paper published: 04
- Ph.D.: 2 (1 about to complete)
- M.Tech Thesis completed: 02

Other Activities:

Technology Developed

Through Institute Budget

- Established Sol-Gel Process in the VLSI Lab for Fabrication of Low-Cost device prototypes in short time. This facility is running very well now. Already many sensors and other devices have been successfully developed.
- Upgraded Sputtering system in the VLSI lab. The new Setup is semi-automatic. We are able to sputter targets of Magnetic materials as well. The system is working very fine. 5 to 6 Ph.D. students and few M.Tech students along with some B.Tech groups are working on it for their research/project works.
- Co-sputtering facility has been developed in the Lab.
- Digital Microscope with resolution $\sim 0.5 \mu\text{m}$ has been procured and is available in the Lab to inspect micron level devices and MEMS devices.
- Multi-Sensor Measurement Set-up with Automated data Acquisition System is procured in the VLSI Lab for recording real time I-V measurements (Static as well as dynamic) of multiple devices at the same time.

Through Sponsored Projects

With Seed Money Project Grant

- Electrospinning Process is fully setup in the Lab for development of various types of sensors including conducting polymer-based gas sensors.
- Electrospinning machine has been purchased for fabrication of better polymer and metal-oxide based sensors for various sensing. Already many sensors have been successfully fabricated using this machine.
- Data acquisition unit for static as well as dynamic IV Characteristics Measurements.

With DST Project Grant

- Tunable Light source (wavelength range 250 nm-1800 nm) is procured under the DST Project Grant. (Cost ~ 18 lacs) to test the photodetectors.

Software Developed

- iLumerical Software for simulation of different devices/photonic devices has been purchased under the head of DST Project Grant (Cost ~ 10 lacs).
- New Lab is Developed-Five (5) lab experiments developed for VLSI Testing and Verification Lab Using Synopsys Front End Tool for Design and Test (DC Ultra, Tetramax etc.)
- New Server is purchased for high end computation purpose especially for Lumerical Software (Cost ~ 2.5 lacs).

Workshop on Thin Film Technologies

'A 3-Day Workshop on Thin Film Technologies' from 06th - 08th June, 2018 was organized in the Department of Electronics and Communication Engineering, Indian Institute of Information Technology, Allahabad funded by our OSA-Student Chapter program. I was the Convener of this workshop. This workshop covered the introductory lectures and hands-on practices on the conventional as well as advanced thin film technologies. The core areas focused were Metal Oxide Semiconductor storage devices, sensors and photodetectors. Device simulation part was also covered in selected lectures along with the demonstration using Lumerical Software.

No. of External Speakers Invited: Three (3) (Prof. C C Tripathi, Director, UIET KUK; Dr. Sachin Srivastava, Scientist CSIO Chandigarh; Dr. Ritu Srivastava, Scientist, NPL, Delhi)

No. of Internal Speaker: Four (4)

Lab Sessions: All three days: constituting Sol-gel, Electrospinning, Sputtering and ALD process along with Device simulation demonstration session.

Title: Technical event: International Day of Women and Girls in Science on 11th February, 2019.

OSA Student Chapter IIITAllahabad organized a one day technical event on 11th February 2019, for celebrating the International Day of Women and Girls in Science. I was the the Convener of the event. The main objective of this program was to represent and promote the excellence of women and girls in science, research and higher education. The event consisted of lecture series representing the potential of women in science and technology to inspire the present women and girls for a better futuristic vision. To support the OSA foundation vision and mission, technical lectures reflecting equal opportunity and excellence in the field of optics and photonics/science were organized. Technical activities like technical quizzes etc. were also organized.

External Speakers Invited: 1. Prof. Anurekha Sharma, Kurukshetra University, Kurukshetra 2. Dr. Anita Mohan, (IIT-BHU), Varanasi 3. Dr. Neha Sardana (IIT Ropar), Punjab.

Date of Event: 11th February, 2019



Dr. Triloki Pant

Department & Designation:

Information Technology, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: 10 Years

Total: 10 Years

Books and book-chapters published: 01

S. No.	Author(s) Name	Title of the Book/Chapter	Publisher	Place and Year of publication	Pages (in case book chapter)
1	T. Pant	"The Impact of MOOC on Education System: The Current Scenario and the Future": in Library and Information Science in the Age of MOOCs	IGI Global	2018	178-190

Research papers published in conference proceedings (as a full paper): 01

S. No.	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year	Pages
1.	Vikash K Mishra, T Pant	Application of Classification Techniques for Identification of Water Region in Multiple Sources using Landsat-8 OLI Imagery	2019 URSI Asia-Pacific Radio Science Conference (AP-RASC)	DOI: 10.23919/URSIAP-RASC. 2019. 8738343	09-15 March- 2019	1-4



Dr. Utkarsh Goel

Department & Designation:

Management Studies, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: 06 years Industry: 01year Total: 07 years

New courses developed

Management thought and Environment

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

Sr No.	Author(s) Name	Title of the Article	Conference	Paper No	Year	page
1.	Utkarsh Goel, Shailendra Kumar, Kuldeep Singh	Corporate Governance: Indian Perspective with relation to Sarbanes Oxley Act	International Conference on Economics and Development (ICED 2017)	6	2017	60
2.	Utkarsh Goel, Shailendra Kumar, Amar Jauhari	Determinants for financing IT firms: A study of Indian Investors	International Conference on Economics and Development (ICED 2017)	5	2017	48

Conferences attended outside IIIT Allahabad

- Annual Conference on Banking & Finance, International Management Institute Bhubaneswar, August 18 - 19, 2017, Presenter, "Stock Market Response to Social Media and Internet News",.
- International Conference On Financial Markets And Corporate Finance 2017, VGSOM, IIT Kharagpur, July 7 - 8, 2017, Presenter, "Stock Market Response to Information Diffusion through Internet Sources: A literature review and Future research Directions".

Work done in project undertaken in the Institute:

IIITA Seed Money Project: Stock Market Response to Information Diffusion through Internet Sources: An empirical Study in Indian Context. Work Started. One research paper submitted for review.

Training Programme organized:

- Conducted self financed short term course titled: Demystifying Finance. from 22 Sep, 2017 to 23 Sep, 2017
- Conducted a GIAN course on 'Hedge Funds and their Trading Strategies' under the aegis of GIAN (Global Initiatives of Academic Networks) sponsored by MHRD (Ministry of Human Resource Development) at Indian Institute of Information Technology, Allahabad from 19th-23rd February 2018.



Dr. Vijay Kumar Chaurasiya

Department & Designation:

Information Technology, Associate Professor

Teaching/Research/Industry Experience:

Teaching/Research: 15 years

Total: 15 Years

New courses developed:

Internet Protocols, IINP 740 E

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Kumar, S, Chaurasiya, VK	A multisensor data fusion strategy for path selection in Internet-of-Things oriented wireless sensor network (WSN)	Concurrency and Computation Practical and Experience	Vol. 30, Issue. 18	2018	E4477
2	Lal, N., Kumar, S., Chaurasiya, V.K	An efficient update strategy for content synchronization in Content-Centric Networking (CCN)	IEEE Systems Journal	vol. 13, no. 2	2019	1650-1657
3	Lal, N., Kumar, S., Chaurasiya, V.K	An efficient update strategy for content synchronization in Content-Centric Networking (CCN)	China Communications	vol. 16, no. 1	2019	108-118
4	Kumar, S., Lal, N., Chaurasiya, V.K	A forwarding strategy based on ANFIS in internet-of-things-oriented wireless sensor network (WSN) using a novel fuzzy-based cluster head protocol	Annals of Telecommunications	73	2018	627
5	Lal, N., Kumar, S., Chaurasiya, V.K	An adaptive neuro-fuzzy inference system-based caching scheme for content-centric networking	Soft Computing	23	2019	4459
6	Lal, N., Kumar, S., Chaurasiya, V.K	A Network-Coded Caching-Based Multicasting Scheme for Information-Centric Networking (ICN)	Iran J Sci Technol Trans Electr Eng	43	2019	427
7	Kumar, S., Lal, N. & Chaurasiya, V.K	An energy efficient IPv6 packet delivery scheme for industrial IoT over G.9959 protocol based Wireless Sensor Network (WSN)	Computer Networks	154	2019	79-87
8	Lal, N., Kumar, S., Kadian, G., Chaurasiya, V.K	Caching methodologies in Content centric networking (CCN): A survey	Computer Science Review,	Volume 31,	2019	39-50

Average Impact Factor of all publications and name of the major journal in which publication are made: 1.667

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Paper No	Date-Month-Year	Pages
1	Kumar S., Lal N., Chaurasiya V.K.	Performance Analysis of Software Defined Network with Three Controllers	Future Technology Conference 2018, Vancouver, Canada	448	14-11-2018	718-732

Seminars and invited talks presented:

- Summer Camp on “Internet of Things and UAVs” ; IIIT Allahabad; 1-10 June 2018
- FDP program on “**Advance Computer Network**”.; United College of Engineering and Research, Allahabad; 1-5 May 2018.

Conferences attended outside IIIT Allahabad:

- Future Technology Conference 2018 at Marriott Pinnacle Downtown Hotel, Vancouver, Canada. 13-14 November 2018, contributed paper,

Work done in project undertaken in the Institute:

Sl. No.	Name of the project and Reference No	Funding Agency/Division	Cost & Duration	Duration	Status
1	Hindi to English Machine Aided Translation in Judicial Domain	Diety, Gol	208.44Lacs	3 Years	Ongoing
2	AVIRAL	IIIT Allahabad	87.03 Lacs	5 Years	Ongoing
3	RFID based Real Time Traffic Management System and pollution control using Internet-of-Things (IoT) protocols	IIIT Allahabad	10 Lacs	3 Years	Ongoing
4	Environment Monitoring and Pollution Control using IoT Protocols	MHRD, Gol	1.0 Lacs	3 Year	Completed

Training Programmes organized:

- Summer Camp on “Internet of Things and UAVs” ; IIIT Allahabad; 1-10 June 2018

Other Activities:**(a) Technology Developed: Yes**

- Smart Parking System

(b) Software Developed: Yes

- Name of the software: AVIRAL: Student Life Cycle and Grade Management for the Institute.

(c) Industry visited and visits to other Institutes for research

- *IT BHU: Project Meeting, January 2019*
- *ITI Mankapur: For Technology Development and Transfer, Feb 2019.*
- *ITI Raebareli: For Value Added Services in existing project and Technology Development, March 2019.*
- *MNNIT Allahabad: Project Meeting: March 2019*



Dr. Vineet Tiwari

Department & Designation:

Management Studies, Assistant Professor

Teaching/Research/Industry Experience:

Teaching/Research: 7.5years Industry: 01 year Total: 8.5 years

Books and book-chapters published:

S. No.	Author(s) Name	Title of the Book/Chapter	Publisher	Place and Year of publication
1.	Saritha S. Vishwanathan, Amit Garg, Vineet Tiwari	Coal transition in India. Assessing India's energy transition options	IDDRI and Climate Strategies	ISBN No.: 978-81-920800-8-6 (2018)
2.	Chandra Kant Upadhyay, Dr. Vijayshri Tewari, Dr. Vineet Tiwari, B. Pandiya	Appulse of Business Analytics in e-commerce Industry	Pan IIT 2018 in IIT Roorkee	ISBN: 978-93-5311-935-5]

Research papers published in journals:

- Saritha S. Vishwanathan, Amit Garg, **Vineet Tiwari** and P.R. Shukla (2018), "India in 2 °C and well below 2 °C worlds: Opportunities and challenges" **Carbon Management**, Volume 9, 2018 -Issue 5, Pages 459-479. The DOI of the paper is: 10.1080/17583004.2018.1476588.
- Kuldeep Singh, Madhvendra Misra, Mohit Kumar, **Vineet Tiwari** (2019), "A study on the determinants of financial performance of U.S. agricultural cooperatives", **Journal of Business Economics and Management**, ISSN 1611-1699 / eISSN 2029-4433, 2019 Volume, 20 Issue 4: 633-647, <https://doi.org/10.3846/jbem.2019.9858>
- Chandra Kant Upadhyay*, Vijayshri Tiwari, **Vineet Tiwari & B. Pandiya**, (2018), "Crowdsourcing advent to optimize Supply chain network problem in rural India" accepted in **Advances in Intelligent Systems and Computing, Springer (SCOPUS)**.
- C.K. Upadhyay, G.A. Vasantha, Vijayshri Tiwari, **Vineet Tiwari** (2019), "Strategic upturn of reverse logistics with Crowdshipping: Transportation explication for India" accepted in **Transportation Research Procedia**, Elsevier (SCOPUS).

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

- Chandra Kant Upadhyay, Vijayshri Tiwari, **Vineet Tiwari** (2018).»Can Blockchain Technology help in reducing digital fraud? Opportunity and challenges for E-governance in India» Workshop on Blockchain Technology 2018- IIT-Kanpur and IIITA- Poster presented).
- Chandra Kant Upadhyay, Vijayshri Tiwari, Vineet Tiwari (2018), "Prospect of entrepreneurs in rural India: Crowdfunding concept. International Conference on "Emerging Perspectives in FinTech" 2018 conducted by NIFM & IIT Delhi.
- Chandra Kant Upadhyay, Vijayshri Tiwari, Vineet Tiwari (2018). "Strategic implementation of e- farming in rural India: Towards sustainable development and cooperation" 18th International Conference on "Digitalization and Flexibility for Organizational Management and Transformation (GLOGIFT 18)", IIM Lucknow.
- Chandra Kant Upadhyay, Vijayshri Tiwari, Vineet Tiwari & B. Pandiya (2018). Assessing the scope of digital supply chain network in rural India, Third International Conference on Facets of Business Excellence - FOBE 2018, IMT Ghaziabad.

Seminars and invited talks presented:

- Conducted hands-on training sessions and delivered expert lectures at AIM International Training Workshop – Jointly organized by NIES, Tsukuba (JAPAN) and MANIT, Bhopal (INDIA) [Dated: 03rd December – 07th December, 2018]

Work done in project undertaken in the Institute:

- Seed money project at IIITA – “*Policy Analysis of Coal Sector in India under Climate Constraints using AIM/Enduse Model*” – has been approved and undertaken on 13 September, 2017.(PI)
- Data collection and model set-up has been done. Final report writing is going on. One paper has been published.

Other Activities:**(a) Participation in the High Level Industry, Academia Interaction Programme during summer**

- Organized a one day Industry – Academia Conclave on 18th April, 2019 at India International Centre in Delhi as Organizing Secretary



Dr. Vrijendra Singh

Department & Designation:

Information Technology, Associate Professor & Head of the Department

Teaching/Research:

17 years

New courses developed:

Title, course number: Computational Intelligence ICOI211, Deep Learning Laboratory

Books and book-chapters published:

S. No.	Author(s) Name	Title of the Book/Chapter	Publisher	Place and Year of publication	Pages (in case book chapter)
1	Shekhar Verma · Ranjeet Singh Tomar Brijesh Kumar Chaurasia · Vrijendra Singh Jemal Abawajy	Communications in Computer and Information Science	Springer	Gwalior, 2018	Edited book First International Conference, CNC 2018 Gwalior, India, March 22–24, 2018

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Arti Gupta, Vrijendra Singh	Enhancing intention to stay among software professionals	Academia Revista Latinoamericana de Administración (SSCI)	31(3)	2018	569-584
2	Preetish Ranjan, Vrijendra Singh, Prabhat Kumar, Satya Prakash	Models for the Detection of Malicious Intent People in Society	International Journal of Digital Crime and Forensics (IJDCF) (Scopus, ESCI)	10(3)	2018	15-26
3	Arti Gupta, Vrijendra Singh	Influence of organisational justice on intention to stay of IT professionals	International Journal of Indian Culture and Business Management (ABDC, ESCI)	17(4)	2018	428-441
4	Swarnima Singh Gautam, Vrijendra Singh	The state of the art in software development effort estimation	Journal of Software: Evolution and Process (SCI)	30(12)	2018	E1983

Seminars and invited talks presented:

- “Time Series Analysis: Recent Advancements & Applications”, IEEE CIS Summer/ Winter School on Deep Learning and Computational Intelligence, Dec. 06, 2018, IIT Kanpur.
- “Machine Learning Advancements”, One Week Faculty Development Programme on Data Mining, Shambhunath Institute of Engineering & Technology, Allahabad from June 1-6, 2018 with the support of TEQIP-III, AKTU, Lucknow, Uttar Pradesh.

Work done in project undertaken in the Institute:

- Received grant in aid for ISRO RESPOND Project on “Speaking Geo-GP Assistant”, Jan. 2019.

Training Programmes organized:

- Self Financed Course on Image Processing May 27- 31, 2019, summer internship May- July 2018.

Other Activities:**(a) Software Developed**

- Name of the software: Software Project Effort Estimation

(b) Industry visited and visits to other Institutes for research

- Name, Purpose, Period: NPSE Ltd., Pragmalytics Ltd. and Army HQ at New Delhi

(c) Awards and Honours

- Title, Selected for Award: “50 Fabulous EduTech Leaders Award”, 8th World Education Congress, Mumbai.

(d) Continuing Education Activities

- 5-Days Course cum Workshop (Self-Financed) on “Effective Image Processing and Machine Learning Tools for Contemporary Applications”, May 27- 31, 2019.

(e) Participation in the High Level Industry, Academia Interaction Programme during summer

- Centre of Advanced Studies, AKTU, Lucknow & IIIT Una, Himachal Pradesh

(h) Any other important activity not specified above:

- R& D - MOU Signed with Pragmalytics Technologies Pvt. Ltd., Kerala.



Dr Sanjai Singh

Department & Designation:

Electronics and Communication Engineering, Associate Professor

Teaching/Research Experience:

14 years

New courses developed:

- Title: Quantum Computing and Quantum Information, Course number: IQCI630E

Any other important activity not specified above

- Participated in a Faculty Development program on Physics and Technology of Materials “FDP-PTM-2018” during 08-14, 2018 at Department of Applied Science, ABV-IIITM, Gwalior.



Dr. Satish Kumar Singh

Department & Designation:

Information Technology, Associate Professor

Teaching/Research/Industry Experience:

14 Years

New courses developed:

Visual Recognition (IVRN3211)

Research papers published in journals:

Soumendu Chakraborty, **Satish Kumar Singh**, and Pavan Chakraborty, "Cascaded Asymmetric Local Pattern: A Novel Descriptor for Unconstrained Face Recognition and Retrieval", *Multimedia Tools and Applications*, vol.78, no. 17, pp 25143–25162, 2019 (**Springer**) [IF: 1.53]

Soumendu Chakraborty, **Satish Kumar Singh**, Pavan Chakraborty,, "R-theta Local Neighborhood Pattern for Unconstrained Facial Image Recognition and Retrieval," *Multimedia Tools and Applications*, vol.78, no. 11, pp 14799–14822, 2019 (**Springer**) [IF: 1.53]

Mohammed Javed, P. Nagabhushan, Bidyut B. Chaudhuri, **Satish Kumar Singh**, "Edge based enhancement of retinal images using an efficient JPEG-compressed domain technique," *Journal of Intelligent & Fuzzy Systems*, vol. 36, no. 1, pp. 541-556, 2019 (**IOS**)[IF: 1.426]

Average Impact Factor of all publications and name of the major journal in which publication are made.: 3.4

- *IEEE Transactions on Neural Networks and Learning Systems*, [IF: 11.0]
- *IEEE Transactions on Information Forensics & Security*, [IF: 5.8]
- *IEEE Transactions on Image Processing*, [IF: 4.82]
- *IEEE Journal of Biomedical and Health Informatics*, [IF: 3.45]
- *Elsevier, Pattern Recognition Letters*, [IF: 2.35]
- *Elsevier, Expert Systems with Applications*, [IF: 3.92]
- *Springer, Multimedia Tools and Applications*, [IF: 1.53]
- *ACM, Tran. on Multimedia Computing, Communications, and Appl.*, [IF: ~2.5]
- *IEEE Signal Processing Letters*, [IF: 2.52]

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

- Nayaneesh Kumar Mishra, **Satish Kumar Singh**, "Face Recognition using 3D CNNs", 1st International Conference on Machine Learning, Image Processing, Network Security and Data Sciences, March, 2019.
- Sumit Kumar, **Satish Kumar Singh**, "A Comparative Analysis on the Performance of Different Handcrafted Descriptors Over Thermal and Low Resolution Visible Image Dataset", *In Proc. of the 5th IEEE UP Section Conference on Electrical, Computer and Electronics (UPCON)*, December 2018.
- Suvidha Tripathi, **Satish Kumar Singh**, "Histopathological Image Classification: Defying Deep Learning Architectures on Complex Data". In *Proc. of Recent Trends in Image Processing and Pattern Recognition Conference*, Springer, CCIS, 2018.
- Kapil Mishra, **Satish Kumar Singh**, and P. Nagabhushan, "An Improved SVD based Image Compression", *In Proc. of the 2nd IEEE Conference on Information and Communication Technology (CICT)*, October 2018.

**Seminars and invited talks presented:**

Workshop Cum Internship Program on Data Analytics and Machine Learning, conducted by Alva's Institute of Engineering & Technology, in Association with IIIT Allahabad, Mijar Campus, Moodbidri, Karnataka, India

- Jan 15-17, 2019
- Topic: Biometrics and Deep Learning Basics
- Role: Resource person

Conferences attended outside IIIT Allahabad:

5th IEEE Conference on Electrical, Computer and Electronics, UPCON 2018, Madan Mohan University of Technology, Gorakhpur

- Nov 02-04, 2018
- Topic: IEEE Conference
- Role: PhD Symposium Chair

International Conference on Computing, Power and Communication Technologies, GUCON 2018, Galgotia University Greater Noida

- Sep 28-29, 2018
- Topic: IEEE Conference
- Role: Session Chair

International Conference on Information and Communication Technology, IIITDM Jabalpur, Madhya Pradesh, India.

- Oct 26-28, 2018
- Topic: Joint Conference of IIITs (ALD, GWL, JBP & KNPM)
- Role: Steering Committee Member, Track & Session Chair (CI & ML)

Work done in project undertaken in the Institute:

Design and Development of Software package(s) for image illumination normalization and coloring of IR images, DIPR, DRDO, 2017-19.

- Amount: Rs. 24,52,643/-Only
- Status: Completed

Automatic Face Detection, Retrieval, and Recognition from Hetrogenous large-scale data-base for secure access, IIIT Allahabad, MHRD, 2017-2018.

- Amount: Rs. 10,00,000/-Only
- Status: Completed

Training Programmes organized:

- 1st National Workshop & Summer School, IIIT Allahabad-211015, India, July 14, 2018 – July 28, 2018
Advances in Deep Architectures for Signal, Image and Vision Applications
Role: Workshop & School Convener and Resource Person

Other Activities:**(a) Industry visited and visits to other Institutes for research**

Secure Mantra Pvt Ltd Visited the CVBL IIIT Allahabad for active collaboration



Dr. S. Venkatesan

Department & Designation:

Information Technology, Associate Professor

Teaching/Research Experience:

12 years

Research papers published in journals:

S. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	N. Andola, S. Prakash, S. Venkatesan , and S. Verma	Secure and Lightweight Multi-User Searchable Encryption Scheme	Journal of Intelligent & Fuzzy Systems	35	2018	1239-1251

Average Impact Factor of all publications and name of the major journal in which publication are made.

Journal of Intelligent & Fuzzy Systems: Impact factor – 1.637

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

S. No.	Author(s) Name	Title of the Article	Conference Title	Date-Month-Year	Pages
1	S. Venkatesan and Kalaivany Natarajan	Simplification of Compiler Design Course Teaching using Concept Maps	7th International Conference on Information Technology in Education (ICITE 2019)	March 23-24, 2019	91-102

Seminars and invited talks presented:

2018	Workshop on Blockchain and its Applications, IIIT - Allahabad, 19th August 2018.	Blockchain: Ethereum Perspective
2018	Second Workshop on Machine Learning & Data Analytics, IIIT - Allahabad, 24th July 2018.	Demo on ELK Stack
2018	Second Workshop on Machine Learning & Data Analytics, IIIT - Allahabad, 24th July 2018.	Data Security and Privacy
2018	At KCG College of Engineering, Chennai, 05th June 2018.	Blockchain: Goethereum Implementation Perspective

Conferences attended outside IIIT Allahabad:

- Presented: **S. Venkatesan** and Kalaivany Natarajan (2019), 'Simplification of Compiler Design Course Teaching using Concept Maps', Proceedings of 7th International Conference on Information Technology in Education (ICITE 2019), Sydney, Australia, pp.91-102.

Work done in project undertaken in the Institute:

- Institute one time seed money
Title: Electronic Medical Record Management System using Blockchain Technology
Cost: Approximate Rs.10 lakhs
Role: Principal Investigator
Duration : 1 year [From May 2017]



- Department of Science & Technology - Indo-Norway Collaborative Project
Title: Cyber-Physical Security in Energy Infrastructure of Smart Cities (CPSEC)
Recommended Cost: Approximate Rs.38 lakhs
Role: Co-PI
Duration: 3 years [From October 2018]
- Institute Project
Title: AVIRAL - Software for CCLCAA –
Recommended Cost: Approx. Rs.87 lakhs –
Role: Co-PI,
Duration: 3 years [From December 2017]

Training Programmes organized:

- Workshop on Blockchain and its Applications, IIIT - Allahabad, 18th and 19th August 2018.
- Second Workshop on Machine Learning & Data Analytics, IIIT - Allahabad, 20th June 2018 – 26th June 2018

Other Activities:

(a) Industry visited and visits to other Institutes for research

- Indian Institute of Technology, Kanpur for Research Collaboration. At least two months once.

(b) Continuing Education Activities

- Workshop on Blockchain and its Applications, IIIT - Allahabad, 18th and 19th August 2018 – Participants from Industry and University
- Second Workshop on Machine Learning & Data Analytics, IIIT - Allahabad, 20th June 2018 – 26th June 2018 – Participants from Industry and University

Brief Summary of the Department's Activities During the Year 2018-19



5.1 Department of Information Technology

Website: <https://it.iiita.ac.in/it/home.php>

The department of Information Technology provides one of the finest programs in Information Technology in the country. The department offers courses at the undergraduate, postgraduate and doctoral levels. At the postgraduate level, the department draws its strength from cutting edge and unique specializations that it offers. The postgraduates can choose between specializations in Cyber Law and Information Security, Machine Learning and Intelligent Systems, Software Engineering, Human Computer Interaction, Wireless Communication and Computing, Robotics and Machine Intelligence, etc. The department carries its strength from the very strong programming and development culture which has developed over the years in the institute. The courses of the department particularly focus on practical implementations at the undergraduate level as well as through a focus on research at the postgraduate level. The department encourages students at all levels of study to undertake numerous projects. The students of the undergraduate program start projects as early as their 5th semester.

The major focus of the department in the last year was offering a new course in collaboration with the Department of Management Studies, called as the B. Tech. in IT with specialization in Business Informatics. The new course combines IT with management studies to meet the emerging industrial requirements to deal with the sudden surge of data. The Department is also preparing towards floating of a course on BTech in IT with specialization in Media Informatics. The preparations are on towards preparation of the curriculum.

The Department has adopted the CCLCAA ordinance and implemented it in the inaugural year. This was done for the B.Tech., M.Tech. and Ph.D. programs. The implementation was specifically difficult for the B.Tech. courses as the course content, mechanism of the delivery of the courses and the evaluation pattern had to be adapted as per the requirements of the new ordinance. This was hard for the faculty, who were used to the old format. This was equally hard for the students who were learning under the new system for the first time. As a result, numerous meetings were conducted between the faculty and the students. The ordinance now stands at a more realistic implementation.

The M.Tech. courses also had the CCLCAA ordinance implemented for the first time, for which the existing format of content delivery and evaluation had to be adapted. The major problem was particularly in the project evaluation. For the first time the projects were evaluated by different panels as three continuous evaluations spread during the semester, which were normalized centrally by the department. There were issues and concerns about the normalization across the boards. This got resolved across multiple meetings with the faculty.

The Department further strengthened its Ph.D. program with the adoption of the new ordinance. The ordinance allows for the Ph.D. students to select their courses of choice and be evaluated on a continuous mode. It also allows the Ph.D. students to start research upfront and undertake courses like independent studies to contribute towards their coursework and research. The department streamlined the Ph.D. for working professionals, allowing the working professionals to get a PhD degree on the problem of their work.

The department has also consistently bagged research projects from different government agencies as well as private industries. The faculty do state-of-the-art research, which results in grants from leading agencies. The department has also worked towards upgrading the existing laboratories by equipping them with latest computing systems as well as the other research infrastructure. This is facilitated by the grants from different projects as well as the department's own funding.

The key laboratories of the institute, which continue to have state-of-the-art infrastructure, include Deep Learning, Big Data Analytics, Robotics and Machine Intelligence, Intelligent System, Cryptography and Information Security, Speech Image and Language Processing (SLIP), Human Computer Interaction and Software Engineering Research.

The department supports the ideas of new faculty. Seed money is given to young assistant professors for projects with an institute interest. It helps them convert their ideas into a reality. The students and faculty can also choose to commercialize their ideas, for which seed funding is provided through different incubation and entrepreneurship schemes running in the institute. Numerous faculties are already working in the same area.

Administrative and Academic Restructuring:

The department continues to be operative through the Department Undergraduate Committee and the Department Postgraduate Committee, who continue to play a vital role in strategizing the department for various requirements from time to time. The requirements for conducting the examinations is slowly shifting towards the department. The department re-constituted the examination committee with Dr. S. Venkatesan as the chairman of the committee. The department continues to form adhoc committees for day-to-day tasks including PhD selections, time tabling, purchase, TA allocation, etc.; on rotation basis and as per the availability of the faculty members.

Prof. OP Vyas took an initiative towards formalization of the BTech in IT with specialization in Business Informatics course, being offered by the Department of IT in collaboration with the Department of Management Students, for which he coopted some other faculty members from IT. Prof. Anupam Agarwal took the initiative towards the initiatives of the BTech in IT with specialization in Mass Media Informatics course, to eventually start with the Department of IT.

Faculty Recruitment

The last academic year was particularly not very encouraging from the perspective of faculty recruitment. Even after numerous attempts, the department could not attract new faculty. The department did a few rounds of recruitments to get faculty, especially in areas where there is a severe crunch. A lot of efforts were made in promoting and attracting the best talents and a large number of applications were invited, however, a very few could cross the line and none of them joined.

However, there are a lot of positives as well. A number of internal candidates were promoted raising them higher in their career. Dr. KP Singh and Dr. Sonali Agarwal were promoted to the position of Associate Professors.

Dr. Dinesh M.S. was recruited as an adjunct faculty in IT. Dr. Dinesh serves as a Principal Scientist at Philips India Research, Bangalore. He made a visit in discharge of his services in December, 2018. Similarly, Prof. Artus Krohn-Grimberghe, University of Paderborn associated as an adjunct professor in the department of IT, made a visit in March, 2019. He took up a role in sculpturing the Business Informatics course, including taking classes for the Business Informatics elective.

Research and Development:

The department provides computing facility to every student. The junior undergraduate students usually share a system among two students, while the senior undergraduate students are given a dedicated system. The labs operate round the clock with easy and secure access to the students. The students make benefit of the computing facilities available. The labs also aid in facilitating the wide range of courses with a lab component.

The post-graduates and the doctoral students additionally benefit from the state-of-the-art laboratories that that reviewed and upgraded from time to time. Each laboratory has enough computing system with the necessary software as needed by the laboratory. The department has also procured dedicated equipment necessary for each laboratory. Recently, the department procured a state-of-the-art humanoid Baxter for the robotics and machine intelligence laboratory, servers and computers for numerous laboratories, and numerous sensors and kits for different other laboratories. The department also operated a new laboratory called as the New Generation Innovation and Entrepreneurship Development Centre, to aid in innovative student projects, funded by the DST.

The following are the key laboratories maintained by the department.

1. Deep learning Laboratory
2. Software Engineering Research Laboratory
3. Interactive Technologies & Multimedia Laboratory
4. Advanced Image & Data Science Laboratory
5. Systems Laboratory
6. Wireless Sensor Network Laboratory
7. Advanced Image and Data Analytics Lab
8. Robotics and Machine Intelligence Laboratory



9. Human Computer Interaction Laboratory
10. Speech, Image and Language Technology Laboratory
11. Cryptography and Information Security Laboratory
12. Big Data Analytics Laboratory
13. Computer Vision Biometric
14. Hardware Technology Laboratory
15. Basic Programming Laboratory
16. Advanced Programming laboratory

Training and Placement:

The students of the department have always been on high demand due to the highest quality of the students produced through a rigorous academic program. The students of the department bag high offers at the very start of the placement season. The students bagged a highest package of 39 lacs per annum with an average package of 16.821 lacs per annum. The top recruiters were Microsoft, Barclays', D.E. Shaw, Uber, Media.net, Amazon, LinkedIn, Morgan Stanley, Flipkart, Goldman Sachs, Adobe, Walmart Labs, etc.

The students got equally well placed for internships in all top companies. The students contribute towards these companies by spending a reasonable time on live projects. Many internship projects are already live and the internship work is reaping benefits to the recruiters. The students typically get Pre-Placement Offers from the same companies.

Higher education, both from the immediately passing out batch as well as from the alumnus is now also a recognizable destination for the students. The students have been admitted into MS and PhD programs in leading universities in the world. Most of the students are currently getting admitted in American universities. Similarly, the students are actively seeking internships in different universities in India and abroad, which has helped in widening the research spectrum of the department.

The feedback from the recruiters is very positive, which is demonstrated by the fact that all top recruiters have consistently visited the campus at the very start of the placement season. The IIITA alumnus continue to have a high growth within the organization and continue to enjoy top positions in top companies. The students perusing research internships at different universities have also succeeded in publishing high quality research papers within the brief research internship period.

Concluding Remarks:

The department has grown significantly from a very humble beginning. The department has quickly gained a structure and learnt to efficiently perform the day to day duties. The students continue to showcase laurels in the biggest stages, including winning hackathons of national fame, outperforming in numerous competitive programming events, opening startups of national fame, getting job offers from the best companies in the world and perusing higher studies from Ivy League universities. The department continues to strengthen the quality of its courses by offering new electives and strengthening the current courses, making them more updated. The faculty of the department have consistently bagged research and consultancy projects from different Government and Non-Government agencies. The faculty shortage continues to be a major challenge for the department. In spite of the challenges, the IIITA's ranking has been significantly improved as NIRF rank 82, QS India rank 25, QS India rank in Institute of National Importance 11, QS BRICS country rank 119, India Today rank 10 and the Week rank 24 etc. All credit goes to our UG & PG students, young research scholars, enthusiastic faculty members and, the leadership of course.

Dr Vrijendra Singh
HoD (IT)

5.2 Department of Electronics and Communication Engineering

Website: <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), MTech.(MI) & M.Tech.(generic ECE), PhD, and Integrated M.Tech./PhD programs. The department provides healthy environment to the Students and Faculties to carry out their collaborative research in the specializations of Microelectronics, Signal Processing, Microwave Engineering, Photonics, Instrumentation & Control, 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 teachers/students ratio.

Administrative and Academic initiatives:

In addition to the regular entry at PhD 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 Transistor, PCB Design, Wireless Communication, 5G and IOT to increase the 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 the 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, publication, 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 academic and industry have been invited in 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 in the curriculum structure from the entry batch of 2018 for UG and PG both.

Research Development:

The faculty members of the department have been able to get approval of 04 projects from the various funding agencies and received grants for the existing projects. The faculty members of the department have published over 29 research papers and 25 conference papers in reputed peer reviewed international journal and conferences respectively during 2018-19. Currently, 43 PhD and 40 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 sensor, object tracking system and drug delivery system have been developed. The faculty members and students of ECE department had also developed Drones under the following projects:

1. Krishi PS-1925 for Agriculture and Smart Farming.

2. Rahat PS-1925 for Disaster Management and Relief Operations.

Training and Placements:

The students of B.Tech. and M.Tech. had registered for the campus placements which were opened in July-August 2018. The departmental placement coordinator and institute's TPO along with student placement team interacted with various companies and their HR teams. Companies were invited from July-2018 onwards to fill up online "Job Notifications Forms" which is opened 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 profile 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. Acko, Amazon, Make My Trip, Western Digital, Samsung Bengaluru, Qualcomm, Soroco, Cisco, Sabre, Nykaa.com, Citi Corp, Zolostays, HSBC (Acer), Edelweiss, Samsung Noida, Oyo, UBS, PayTM, Philips, Infosys (PP), HSBC (Striker), Wipro, Cubastion, etc., to name a few were the companies that visited campus and recruited our students. The placement activities during the academic year 2018-19 for B.Tech.(ECE) students was conducted and 80% placement has been attained with highest CTC of 27 Lac/annum and average CTC of 12 Lac/annum.

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 Director, IIITA, the department has attained significant improvement in curriculum, research, administration and student's placement. Collaboration with other pioneer institute and industry was also initiated. For creative learning environment, minor/major and tutorial enabled academic credit system has been initiated by the department. Under the digital India programme, the department has initiated certain steps in terms of prototype development, controlled facility for autonomous operation and academic assessment.

Dr. Rajat Kumar Singh

HoD (ECE)

5.3 Department of Applied Science

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

1. Brief introduction

Department of Applied Sciences (DAS) is an integral component of IIIT Allahabad's academic ecosystem. The DAS contributes two master programmes, viz., Bioinformatics and Biomedical Engineering (BME). These program offers courses for students aspiring undergraduate and post graduate courses and PhD programme in Computational Biology and Biomedical Engineering. The DAS also contributes to various core courses running in other Departments.

The DAS has pool of faculty from various disciplines to give it an extra interdisciplinary edge. It caters to various courses related to Mathematics, Physics, Chemistry, Biology, Biomedical Engineering and Bioinformatics. Significant contribution, however, is towards the MTech IT (Bioinformatics), MTech (Biomedical Engineering). The DAS has well equipped laboratories and facilities that enable faculty and students to employ fundamental principles to create innovative new technologies.

The Department of Applied Sciences strive to excel with vision

- a. to conquer the limits of nature by revealing inherent properties of versatile materials like protein, DNA, RNA and paving path to the awaiting Bioinformatics breakthrough.
- b. to develop and implement algorithms and tools to, use, manage and study various biological information.
- c. to provide leadership by maintaining standards in practice, research, teaching, and commercial application in Bioinformatics.
- d. to device a framework to foster and facilitate overall advancements in Bioinformatics.
- e. to lead research in leading technologies to serve mankind in general.

2. Placement Record for Batch 2017-19 (100% Placement)

3. Current sponsored projects

- **Project Entitled** “Study the Yearly Diversity of the Aquatic Bacterial Communities in the Sangam-Allahabad by Foldscape. DBT order No: BT/IN/Indo-US/Foldscape/39/2015 dated 20.03.2018
- **Project Entitled** “Near Horizon Structure of Black Holes” sponsored by DST-SERB India.
- **Project Entitled** “Colour Barcoded, gold Nanoparticle Coated, Embedded, Magnetic Microparticle for Lab on Chip Localized Surface Plasmon Based Label-Free Multiplexed Bioassays” Order No: SB/FTP/ETA-0126/2014.
- **Project Entitled** “A Novel Water Purification System with Silver Nanoparticle Coated Micro-Channel Arrangement for Filter-Less Purification of Water and Embedded Waveguide for Purity Indicator “Order No: DST/TM/WTI/2K15/201.

Previous sponsored projects

- **Project Entitled** “Analysis of the neuroprotective properties of natural compounds and their derivatives/prodrugs in experimental models of Parkinson disease with potential therapeutic applications”, DBT sanction order No. BT/PR4908/MED/30/745/2012/dated 2.6.2014.
- **Project Entitled** “Topological materials and Applications: Majorana fermions in topological insulator” Under DST (FAST track Young Scientists), 2014-2017.
- **Project Entitled** “Spintronic material and its applications” under DST, 2014-2017.
- **Project Entitled** “Development of new methods and algorithms for pathophysiological characterization of coronary blockade by processing ECG and similar quasiperiodic biomedical signals and biomedical images”, – Completed under the investigation of Dr. Tapobrata Lahiri and recently approved by ILTP of cooperation between DST, India and RFBR, Russia.
- **Project Entitled** Implementation of ILTP project entitled “Development of New Method and algorithms to identify Exon-Intron boundary and finding signatory signal pattern for genetics abnormalities like autism”. Principal Investigator: Dr. Pritish Kumar Varadwaj.



- **Project Entitled** “Development of transgenic Wheat plant against Cereal Cyst nematode (*Heterodera Avenae*) and Sunnpest (*Eurygaster integriceps puton*) by using Bioinformatics and Genetic Engineering approaches”. Principle Coordinators – Dr. C.V.S. Siva Prasad, IIIT, Allahabad and Prof. Alex K. Gaponenko, Koltzov Institute of Developmental Biology, RAS, Moscow.
- **Project Entitled** “Application of EMF for evaluation of health of vital organs” – Completed under the investigation of Dr. Tapabrata Lahiri, funded by ILTP of cooperation between India and Russia, DST, Govt. of India.
- **Project Entitled** “Development of a Fractal and Soft Computing simulation based methodology to predict protein surface-roughness-map to help pharmaceutical designing of best possible small binding molecules”. A drug design approach – Completed under the investigation of Dr. Tapabrata Lahiri, funded by Ministry of Human Resource and Development (MHRD), Govt. of India.
- **Project Entitled** “Development of a Computer-aided Microscopic Tool for Structural Derivation of Pathologically Significant Proteins”. – Completed under the investigation of Dr. Tapabrata Lahiri, funded by ICMR.
- **Project Entitled** “Application of Nuclear Magnetic Resonance Computational and Traditional Methods for Designing and Development of some Herbal and Synthetic Drugs” Under the guidance of Prof. Krishna Mishra, Professor, IIITA.

4. Recruitment

The recruitment process is through a roll-on advertisement throughout the year.

5. Concluding remarks

Department of Applied Science is a heterogeneous blend of complementarily beneficial subject areas and thus could reap the benefit of multidisciplinary research and courses. Also, the department is contributor of fundamental knowledge in basic sciences, especially physics, chemistry, mathematics and biology which are essential pillars of Information Technology, the mandate of the institute.

(Dr. Pritish Varadwaj)

HoD (Applied Sciences)

5.4 Department of Management Studies

General Information:

1. First Batch Under CCLCAA ordinance has started pursuing MBA.
2. The fourth batch of Integrated MBA-Ph.D. program has started pursuing the Ph.D. program after completing their MBA.
3. 05 Students were admitted to full time Ph.D. programme.
4. The process was initiated for taking admission for first batch of MBA (Working Professional) and Ph.D. (Working Professional) program.

A new assessment system CCLCAA was launched in the Department. Institute Choice and Credit Linked Continuous Assessment and Award (CCLCAA) ordinance is an articulation of the Institute's commitment towards the need of a "continuous assessment" of its enrolled students, with a view that it enables students to maintain the continuity in learning process, which eases them of the anxiety that un-necessarily peaks up during the mid and end semester examination because otherwise the assessment process is predominantly such examination based.

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

Working/practicing professional would have gathered so much of work experience and talent, that over time each one could act as a knowledge hub. If such people could receive a formal higher academic orientation with a tilt to look at their own professional environment from a research critical perspective, they would not only be more effective but also be creative. With this intention IIITA has rolled out MBA for working professionals. The candidates pursuing conventional degrees of M.Tech., MBA have mainly course work-based curriculum, with project work towards its partial fulfillment while the MBA course proposed for working professionals are mainly research based and field work oriented.

Currently the admission to various Ph.D. programmes in Indian Institute of Information Technology, Allahabad (IIITA) is on full time basis and on scholarship support. Somehow this is inhibiting even the candidates who could be sponsored and deputed for full time Ph.D. studies from applying. The Department has also initiated the process for start of PhD working professionals' program with an aim to project these untapped potentials with a model to transform their working desk/field to a learning desk/field so that working professional could channelize his/her learning potential into a creative innovation.

Extra-Curricular Activities:

1. Workshops were conducted for the students for their personality development, team building and ways to tackle issues in corporate life.
2. Various Guest Lectures of eminent speakers were organized to supplement class room knowledge.

Academic Activities:

1. National Conference and Industry-Academia Interface on the theme "Managing Sustainable Development" was organized on 22nd and 23rd of February 2019.
2. A 2-day Certificate Programme was organized by Dr. Shailendra Kuma and Dr. Utkarsh Goel on the topic "Research Modelling using Excel and R" on 08-09th March.

Lab Development:

1. Financial online database "CMIE-Prowess" was procured for augmenting lab resources.
2. A state of art communication skill Lab is under development which has the objective to develop students' communication skills and prepare them for campus placement or recruitment.
3. A new Lab on Decision making has been sanctioned and is currently under development.

(Dr. Vijaishri Tewari)

HoD (Management Studies)

RESEARCH AND DEVELOPMENT



6.1 Research and Projects 2018-19

Sr. No.	Name of Project	Principal Investigator	Funding Agency	Project Cost	Amount Released
1	Development of New method and algorithms to identify exon-intron boundary and finding signatory signal pattern for genetic engineering like autism	Dr. Prithish Vardwaj	DST	2,070,860	1227930
2	Development of transgenic wheat plant against cereal Cyst Nematode (Heterodera Avenue and sunnpest (Eurygaster intergriceps puton) by using Bioinformatics and Genetic engineering Approaches	Dr. CVS Siva Prasad/ Dr. Prithish Varadwaj	DST	5,397,620	5371154
3	Disaster management system for large scale deployment of sensor network using a fault toldurant mechanism	Dr. Shirshu Verma	DST	15,847,800	7308000
4	Universal Digital Library- Content creation in Tibetan, Sanskrit and English	Director	MCIT	10,500,000	8811008
5	Development of a computer aided microscopic pool for structural derivation of pathologically significant proteins (No.52/8/2005-BMS)ICMR ,Ansari Nagar- New Delhi	Dr. T. Lahiri	I.C.M.R	2,683,391	2344570
6	Technology incubation and Development of Entrepreneurs(Tide) Scheme	Dean (A&R)/ Dr. Rahul Kala	DEITY	16,500,000	6836000
7	Allahabad High Court Digitilization Project	Director	Alld High Court	51,100,000	43990000
8	ATB Netwok simulation Tastbed at MCTE,MHOW (MP)	Prof. M.Radhakrishna	CDA Jabalpur	14,440,000	11749623
9	Distributing Industrial Optimization tasks to Rural Worker- INDO UK BURD Project	Prof. Anupam	DST	6,088,130	4255024
10	Topological Materials and Application Science and Research Board	Dr. Pramod Kumar	DST-SERB	2,330,000	1075000
11	Spintronic material and its applications	Dr. Pramod Kumar	DST-SERB	3,808,025	3500000
12	Inspire Faculty Award	Dr. Sitangshu Bhattacharya	DST	3,500,000	1915626
13	IIITA Design Innovation Center	Dr. Suneel Yadav	MHRD	5,937,004	6937004
14	Special Manpower Development Programme	Dr. Manish Goswami	DietY	3,856,258	4056258
15	Graphene transistors on different high-k dielectrics as performance boosters and role of self-heating: a physics based theoretical approach	Dr. Sitangshu Bhattacharya	DST	2,726,000	2334000
16	A Novel water Purification System with Silver Nanoparticle Coated Micro-Channel Arrangement for Filter Less Purification of Water and Embedded Waveguide for Purity Indicator	Dr. Amit Prabhakar	DST	2,518,947	2406105
17	Colour Barcoded, gold Nanoparticle Coated, Emeded, Magnetic Microparticle for Lab on Chip Localized Surface Plasmon Based Label Free Multiplexed Biossays	Dr. Amit Prabhakar	DST	3,222,600	2157720
18	GLOBAL INITIATIVE ON ACADEMIC NETWORK	Dr. Satish Kumar Singh	MHRD	5,168,000	5168000



Sr. No.	Name of Project	Principal Investigator	Funding Agency	Project Cost	Amount Released
19	Silicon nanowires: professional compact model of scaled thermoelectric figure of merit for energy harvesting”	Dr. Rekha Verma	DST	2,109,800	1718600
20	Mission Planning using Sampling based techniques	Dr. Rahul kala	Dr. Rahul kala	3928766	3187713
21	Hindi to English Machine Translation System for Judicial domain	Dr. Pritish Varadwaj	MeitY	2688000	1530000
22	Physical Layer Security in Cooperative Cognitive Relay Networks	Dr. Suneel Yadav	SERB	4548500	3782000
23	Design and Development of Software Packages (s) for Image Illumination Normalization and coloring of the IR Images	Dr. Satish Kumar Singh	DRDO	2452643	1550000
24	IMPRINT India initiative	Dr. Bibhas Ghoshal	MHRD (IIT Kanpur)	2023000	2023000
25	Investigations on Chalcogenide Photodetectors	Dr. Sunny Sharma	SERB	5247660	4359960
26	Medical Cyber Physical System for lifestyle diseases using Big Data Analytics	Dr. Sonali Agarwal/ Dr. Rahul Kala	SERB	3596250	1198000
27	National Post-Doctoral Fellowship Scheme	Dr. Sintu Kumar Samanta	SERB	1920000	646693
28	Fold Scope DBT	Dr. Amaresh Kumar Sahoo	DBT	800000	600000
29	Near Horizon Structure of Black Holes	Dr. Srijit Bhattacharjee	SERB	1977248	841949
30	Cyber-Physical Security in Energy Infrastructure of Smart Cities (CPSEC)	Prof. O.P.Vyas	DST	3,575,500	1244000
31	Newgen Innovation & Entrepreneurship Development Centre	Dr. Ranjana Vyas/ Dr. Rahul Kala	DST	28750000	6000000
32	Real Time Complex Processing and Analytics for Smart Buildings	Dr. Sonali Agarwal	DST	2337720	1234200
33	Design and Development of Dimensionality Reduction Techniques for Cyber Physical Systems	Prof. Shekhar Verma	DST	3128400	2059200
34	Transdifferentiation of Mesenchymal Stem Cells into Functional Neurons on Biodegradable Nanomaterial Scaffolds	Dr. Sangeeta Singh	SERB	3816000	1950000

The Infrastructural Development



7.1 Infrastructural Facilities

The Jhalwa campus includes **three Computer Centers with several labs each, lecture halls, a newly built auditorium, electronic library, and a residential campus.** Various other facilities are under development. **The NSC complex** includes five laboratories, eight computer laboratories, five lecture halls, a conference room, auditorium, library, cafeteria, office space and other facilities. The total covered area is about 25,000 sq. ft. Besides this, there is an open space of 50,000 sq. ft. that is used for parking, lawns and sporting activities.

The new campus has been developed on **100 acres of land at Devghat, Jhalwa, on the outskirts of 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 diverse floriculture, the Campus includes Visitors Guest House, Faculty Guest House, VIP Guest House, 4 Boys’ Hostels with capacity of 275 inmates each, 2 Girls’ Hostels, 60 Residential Quarters of Type I, II, III & IV, Married Scholar Apartments, Students Activity Centre, Bank, Post Office, Health and Shopping Complexes, Squash Courts, Tennis Courts, Badminton Courts, Pavilion & Playgrounds and Girls’ Hostel, Boys’ Hostels and academic Staff Quarters at RGIIT-Amethi Campus of IIITAllahabad.

Elements of the new 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, electronic 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.

Also present is an **electronic library that provides students with connectivity to the latest technological material** through networked workstations. There are 25 computer systems arranged for students to read electronic resources. Reading space is provided at convenient locations. The central portion has computer labs, while the arms of the building house faculty rooms and classrooms. 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.

Sports facilities are located within the main campus, with a **500-seat sports complex.**

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 Allahabad (the Nehru Science Centre campus).** The bus service also covers the Naini and Civil Lines areas. The residential campus consists of a mens’ hostel with **capacity for 240 students, womens’ hostel for 60 students, 40-room air-conditioned guest house and staff residences for senior professors and other staff.** Faculty hostels with two-room and one-room units meant for visiting professors are also to be provided.

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

- Fully furnished separate Hostels for Boys & Girls is available
- 24 Hours Internet Connectivity through 1 GBPS Leased Line
- Normally each student allotted P4 and above computers

- All computer points backed by 100% Uninterrupted Power Supply
- All students are encouraged to undertake Projects in cutting-edge areas under active supervision of faculty members. Students are also encouraged to undertake Industrial trainings/projects during vacations.
- Academic Regulations as being practiced at other IIT's are broadly followed at the Institute **mutatis mutandis**
- All courses are envisaged to be delivered by experts
- State-of-the-art facilities for all labs
- All academic and administrative areas are fully air conditioned
- Unique opportunity to participate and contribute in leading National and internationally sponsored projects
- Selected students may also get the opportunity to work in foreign Universities under special institutional MoU's with them. Academic Exchange of students program with international educational institutions of repute
- 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 available in the Institute premises itself
- Medical facilities available on the Campus at any hour of the day and night. However, selected students must have Insurance before taking admission
- State of Art A/C library covering different books, magazines related to Computers, Management, Electronics, etc. Electronic library available for academic and general mental development of the students
- Messes in the Hostels 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 guidance of the 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 trouble shooting of any faults, resulting in no requirement of any computer related AMC's
- IIT- Allahabad is the first academic campus in the country to implement.
- (BPL) (Broadband over Power Line).

Sports: IITAllahabad 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 IITAllahabad. 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.

Health Facility: The health center of the institute is a 24*7 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.

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. R Dayal, 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, Mail and 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

IIITA has a well established network infrastructure both for the local (LAN) as well as access to the internet. It is a medium-size network and approximately consists of 2000 nodes. 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 equipments (including layer 3 managed switches) have been installed ensuring a high speed intranet access during all hours of the day. The internet is facilitated by a dedicated link from National Informatics Center of 250Mbps bandwidth including a redundant wireless link of 10Mbps to ensure connectivity in case of technical breakdown. A centralized server room in the lecture theater monitors all network behaviour and facilitates distribution of the secure network to the entire campus. The IIITA network infrasture is sophisticated and uses cutting edge technologies.

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.

Hardware: Computer laboratories and the administrative buildings are derived from selected tessellated blocks in the star pattern. Out of IIITA's 35 labs the computer labs provided to the MBA/MS division comprises of Latest PCs having Core 2 Duo, Quad Core, i5 ,i7 with a 24 hours Internet access through 1 GBPS Leased line. Scanners, CD-DVD writers, Laser printers are also available in the Labs.

Item of Expenditure	Particulars		
	Sl. No	Detail	Occupancy
Hostels (no. of seats created) (1280)	IIITA Jhalwa Campus		
	1.	Girls' Hostel – I	52
	2.	Girls' Hostel – II	88
	3.	Girls' Hostel – III	248
	4.	Boys' Hostel – I	264
	5.	Boys' Hostel – II	264
	6.	Boys' Hostel – III	264
	7.	Boys' Hostel – IV	352
	8..	Married Scholar Apartments	50
Faculty housing (no. of units by type created)	8.	TOTAL	1502
	Type	Sqm.	Quantity
	A	55	08
	B	85	28
	D	120	24
	E	165	06
	F	200	05
	Total		71
Laboratory facilities (no./type)	Name of Building		No. of Labs
(Names & Particulars of Labs)	Computer Centre – 3		30 Labs, 12 Lecture Halls & 35 Faculty Rooms
	Computer Centre – 1 (Top Floor)		02
	Computer Centre – 2 (Top Floor)		02
	Lecture Theatre (Top Floor)		02

Item of Expenditure	Particulars
Library facilities	CD-ROMs, Online databases, audio-video cassettes, books, e-journals, patents, e-standards, theses, project reports and Newspapers etc.
Technology infrastructure and facilities	Swimming Pool
	Auditorium
	1) Pavilion
	2) Volleyball Court
	3) Lawn Tennis Court
	4) Athletic Track
	Squash Court
	Cafeteria
Others	1) Health Centre
	2) Bank & Post Office
	3) Telephone Exchange
	4) Shops, Dormitory
	5) Student Activity Centre
	(RGIT-Amethi)
	1) Auditorium
	2) Canteen
	A. Computer Centre – 3
	1) Lecture Halls
	2) Faculty Rooms
	3) Meeting Rooms
	4) Laboratories
	5) Essential Services Rooms
	B. Director's Residence & Camp Office
	C. HVAC & associated work
	D. Internal Furnishing for academic buildings, Hostels and Auditorium
	E. Office equipments
	F. Upgrading of Internet & Wi-Fi Facilities
	G. Sewage Treatment Plant
	H. Spillover of 10 th Plan
	I. Expenditure towards Ongoing Constructions
	1) Boys' Hostel – V
	2) Residences Type II, III, IV

More Constructions

Name of the Building	Covered Area (in Sq.m.)
Boys' Hostel – V	19836.0
Girls' Hostel – III	10607.0
Additional Residences (54 nos.) [Type – I (06 nos.) Type – II (16 nos.), Type – III (20 nos.) and Type – IV (12 nos.)]	6424.15
Extension of Administrative Building	3660.00
Construction of Community Centre	705.00
Construction of Security Office cum Reception Complex	150.00
Construction of Bus Stops at Campus	186.00
Construction of 69 no. 4-wheeler and 109 no. 2-wheeler parking place at CC-3 building	1270.00
SUBTOTAL (ii)(c)	42838.15



Hostel Facilities

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	Single Rooms	Double Rooms	Total Rooms	Occupancy Capacity
Girls' Hostel – I	10	21	31	52
Girls' Hostel – II	10	39	49	88
Girls' Hostel – III	128	48	176	224 (+ 24 single suites)
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	767 (+ 64 single suites)
Married Scholars' Apartments			50	50
	TOTAL			2325

Residential facilities

Sl. No.	Existing Accommodation	No. of Rooms
1.	Number of Faculty houses (F type, 200 Sqm.) (E type, 165 Sqm.) (D type, 130 Sqm.) (C type, 110 Sqm.) (B type, 85 Sqm.)	65 05 14 28 02 16
2.	1. Visitors' Hostel I*: AC Room suites (Refrigerators, TV, computer facilities in six suites), all double beds) AC Rooms (TV, All Double beds) Non-Ac Rooms (*Dining Hall, cyber café-3 computers, gym facilities) 2. Visitor Hostel II: (For VIP / International Visitors mainly with all essential facilities) 3. Visitor Hostel III: AC Suites, AC single (All double beds, refrigeration in 17 suites, TV with computer in all 30)	10 20 10 - 28 02

More Residential Accommodation

Sl. No.	Type of Quarter	Area	No. of Quarters approved by the Board	No. of Quarters constructed in First Phase
	Type – I	55 Sqm.	12 (2 blocks)	06
	Type – II	85 Sqm.	32 (2 blocks)	16
	Type – III	100 Sqm.	40 (2 blocks)	20
	Type – IV	120 Sqm.	24 (2 blocks)	12
			108	54

Classroom Infrastructure

1	Campus area in acres	100 Acres
2	Total number of class rooms - 32	
	Computer Centre CC1	05
	Computer Centre CC2	05
	Lecture Theatre LT	10
	Nehru Science Centre NSC	03
	C.V. Raman Bhawan (CC-III)	12
3	Number of Faculty cabins - 108	
	Computer Centre CC1	22
	Computer Centre CC2	22
	Lecture Theatre LT	10
	Nehru Science Centre NSC	05
	C.V. Raman Bhawan (CC-3)	54
4	Number of laboratories - 72	16
	Computer Centre CC1	16
	Computer Centre CC2	05
	Lecture Theatre LT	05
	Nehru Science Centre NSC	01
	C.V. Raman Bhawan (CC-3)	30

7.2 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

Department of Information Technology

S.No	Name of Lab	Faculty Incharge
1	Robotics Lab	Prof. G. C. Nand, Dr Rahul Kala
2	SILP/Cognitive Computing Center(New)	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
5	Data Analytics Lab	Dr. Manish Kumar
6	Network Security & Cryptography Lab	Prof. Shekhar Verma/Dr. S.Venkatesan Dr. Vijay Chaurasia/Dr.Soumyadev Maity
7	Wireless Sensor Network Lab	Dr. Shirshu Varma
8	Robotic Fabrication & Control	Dr. Pavan Chakrabarty
9	Computer Vision Biometric Lab/Research Lab	Prof. P. Nagabhushan/Dr S.K.Singh Dr. M. Javed
10	System Lab	Dr. Bibhas Ghosal/Dr. Jagpreet Singh
11	Deep Learning lab	Dr. Vrijendra Singh
12	Intelligent Signal Processing Lab (New)	Dr. Shisrdhu Verma/Dr. Vrijendra Singh
13	Advanced Image & Data Science Lab (New)	Dr. T. Pant/Dr. Vrijendra Singh
14	Software Engineering research Lab	Dr. Sonali Agarwal/Dr. Vrijendra Singh
15	Big Data analytic Lab	Dr. Sonali Agarwal
16	Digital forensics and cyber security lab	Dr. Abhishek vaish/De. Shekher verma Dr. S. Venkateshan

S.No	Name of Lab	Faculty Incharge
17	Wireless network and IOT research Lab	Dr. Vijay Chaurasia
18	Business Intelligence & <i>Smart e-campus</i> Lab (New)	Dr. Ranjana Vyas
19	Introduction to Computer Lab (Hardware)	Mr. Shailendra Singh (U/G of HoD IT)
20	Computer Lab CC2	Prof. Shekher Verma/Dr. Pavan Chkraborthy

Technologies & Multimedia Research (ITMR) Lab

1. Research Lab Name:

Interactive Technologies & Multimedia Research (ITMR) lab, CC2, IIITA

2. Vision:

The Interactive Technologies & Multimedia Research lab, established in year 2003, targets to conduct research on the cutting-edge topics of interactive technologies & multimedia with Human-Computer Interaction & Intelligent System fields. Our focus is to create such technology to assist humans both emotionally and intelligently and making it affordable for a common man.

3. Research Focus Area:

Human-Computer Interaction, Image & Video processing, Artificial Intelligence, Machine learning, Graphics & Animation, Virtual Reality, Video Surveillance, Remote Sensing, Applications in Health informatics, Education, Agriculture and Smart City.

4. Associated Faculty Details with Designation:

- Dr. Anupam, Professor & Head of the ITMR Lab
- Dr. Vrijendra Singh, Associate Professor
- Dr. Bibhas Ghoshal, Assistant Professor
- Dr. Rishi Ranjan Singh, Assistant Professor (now with IIT Bhilai)
- Dr Pooja Mishra, Assistant Professor

5. Few keywords for Research Interests of each faculty:

Prof Anupam (As per s.no. 3)

Dr. Vrijendra Singh (Blind Source Separation, Independent Component Analysis, Biomedical Analysis, Artificial Neural Networks, Data Mining, Image & Audio Processing, Digital Signal Processing, Materials Management & Inventory Control, Information Security & Forensics)

Dr. Bibhas Ghoshal (Embedded and Real time System, IoT, VLSI Design and Test, System software, Computer Architecture, CAD for VLSI, Signal Processing)

Dr. Rishi Ranjan Singh (Approximation Algorithms, Social and Complex Network Analysis, Mathematical Formulation, Algorithms Optimization)

Dr Pooja Mishra (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)

6. Available Facilities/infrastructure of the lab:

a. Equipment:

- Lieca GS5 GPS Receiver (1)
- Mini-projector (1)
- Sony Camera (1)
- HP iPAQ pocket PC (1)

**b. Hardware:**

- Desktop PCs with Nvidia Cards (12 no.s, procured in year 2010, one is not functional)
- Laser printer (2)
- Joystick Wing Man (1)
- i-ball tablet (1)
- flatbed scanner (2)
- Creative Speakers (2)
- Web Camera (2)
- Mic (2)

c. Software:

- PCI Geomatica (purchased under the MHRD project in yr 2004, renewal required)
- ERDAS Imagine Professional (purchased under the MHRD project in yr 2002, renewal required)

d. Any other:

- Tripod for camera

7. Key Achievements:

(Based on utilization of resources of the ITMR lab)

- 5 PhD
- 45 MTech thesis
- 300 or more BTech projects
- 3 external funded projects
- One patent has been filed
- International & national Collaboration
- Organized international conferences under the umbrella of ACM & Springer, international workshops and Summer School as Coordinator
- Published 40+ Journal, 80+ conference, 8 Book chapters and 3 edited books.

8. Budgetary Details: (Expenditure till date and future requirements/Plan):

The ITMR lab has been mainly established with the help of external MHRD (no. F.26-4/2002.TS.V) and DST (DST/SEED/INDO-UK/005/2011) funded projects. The 12 GUP-based computer systems were provided by IIITA for the lab in year 2010 for PG & UG thesis/ course project work; their budgetary details must be available in office.

The lab is being used for various courses and projects/research work including Graphics & Animation, Virtual Reality, Computer Vision and Image Processing, Human-Computer Interaction and Machine Learning based project development work. So high-end latest computer systems are required. **The existing systems in the lab have old configuration (they were procured in year 2010); they should be replaced/ upgraded with latest configuration systems.**

Current requirement:

For ongoing courses such as Virtual Reality , Graphics and Animation, Image & Vision processing, Artificial Intelligence (& machine learning) following additional equipment/devices and software are required:

- Head Mounted Display (HMD) & accessories (2)
- Data Glove (left & right hand)
- Smart Glass for AR application (2)
- 3D laser scanner (1)
- 3D Body Motion Tracking and feedback system (1)
- Interactive Touch Surface table (1)
- Gamestudio Pro (2 licenses)
- Raspberry pi (approx. 5) & accessories
- Raspberry pi compatible camera (2)
- Solder kit (2) and Raspberry pi mounting kit (3)

9. Justification of Budget already spent:

Already explained at s.no. 8.

10. Additional budget requirements:

Rs. 37,48,000/- (ref. email dt. 23-03-2018 to HOD(IT) in response to his email dt. 22-03-2018 with subject "Tentative budget FY 2018-19").

Biomedical Imaging Laboratory

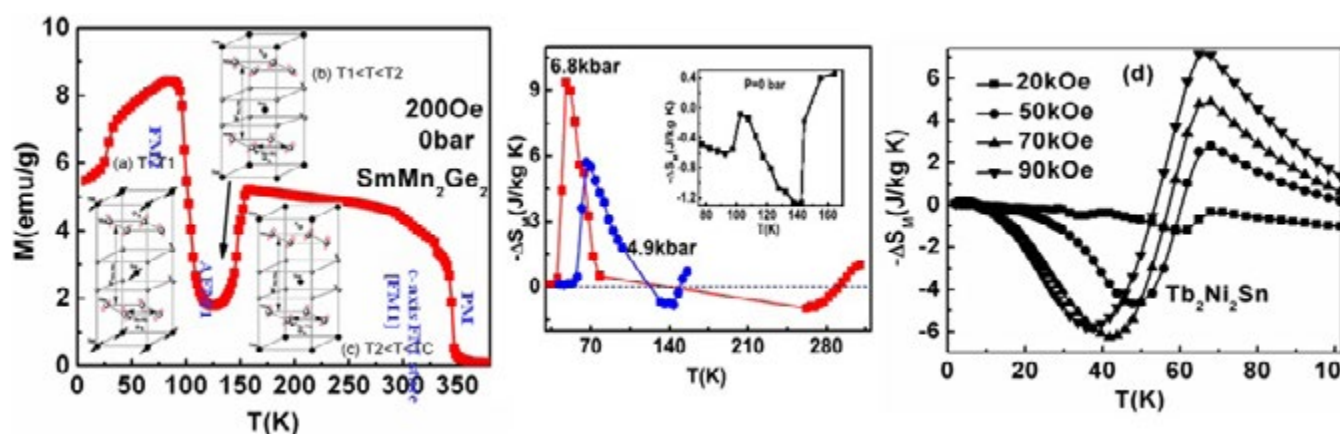
This is a teaching cum research laboratory. Phantom experiments will be conducted to demonstrate basics of ultrasound imaging. The generation of acoustic signal due to absorption of light referred to as the photoacoustic effect will also be demonstrated through simple experiments. Its use in medical 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-

- Ultrasound transducers (JSR, center frequency- 3.5, 5, 7.5 MHz, bandwidth- 30%, diameter- 0.5 inch).
- Ultrasound pulser/receiver (DPR 300, JSR, bandwidth- 35 MHz, driving voltage- up to 400 V, gain- 0-60 dB)
- 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)
- 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 Metamaterials 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 monochromatic light 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 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, CC II

SI No	Generic Name of Equipment	Make and Model
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.

The last year, the laboratory purchased the Baxter humanoid robot. The robot 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:

- **Huamnoids:** 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)

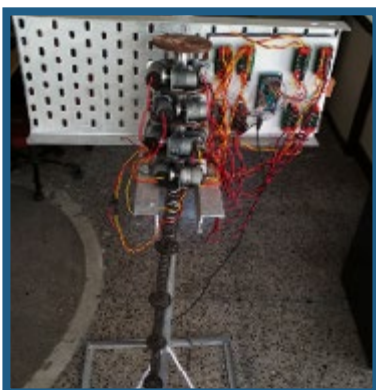
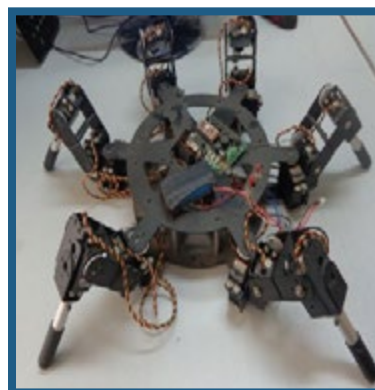
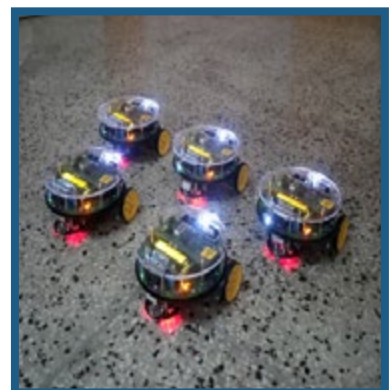
The lab has also made some indigenously developed robots such as:

- 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
- Mercedes 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.

*Baxter**NaO**AMAL**Pioneer LX**Amigobot**SMART**Firebird VI**Trunk Manipulator**Hexapod**Firebird V*



New Research/Teaching Laboratory

1. 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.

1.1 Major equipment:

- NUV exposure system
- 3-D versatile printer (custom made)
- Laser ablation system
- Spin coater
- Convective oven
- Stereozoom microscope
- Fluorescence microscope
- Syringe Pump
- Peristaltic Pump
- Laminar Flow system
- Optical Bench
- Optical fiber Spectrometer
- Mini laser light sources
- Precision Hot plate

2. Intellectual Property Right Cell (IPR-Cell)

Intellectual Property Right Cell (IPR-Cell) has been recently reallocated in 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 with MyCrave 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.*

7.3 Library Facilities

The sun pattern has been chosen for laying out the library. The IIITA 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 provided for reference purposes. Present is an electronic library that provides students with connectivity to the latest technological material through networked workstations. There are a total number of 25 systems distributed over two floors arranged to users for reading e-resources. Reading space is also provided at convenient locations. There is a premier section of Theses/ Project Reports for the students. This new library has already acquired more than 61,000 books on various courses along with IT related latest titles. The library uses web-based software, developed in-house, for maintaining the database and circulation related daily operations. Besides, Institute is also the member of INDEST consortium, through which all ACM Digital Library, IEEE Digital Explore, Elsevier-Science Direct, Springer, Emerald Management, Harvard Business Review, Sage Online Journals, EBSCO etc. and other useful tutorials and journals are accessible throughout the campus, in digital form.

Library Functioning

- Before the beginning of each semester a mail is floated to Faculty members and students for providing their needs of books, journals, magazines, and database based on current Industry trends and practices for its procurement in the library.
- The various requisitions are processed and finally the order is placed in consultation with the competent authority.
- The library has optimum blend titles, covering reference interests and also text books.
- If required special orders are also placed during the mid semester

Peripheral Activities in the Library

- Tracking of Usage Rate and Renewing the Subscription of Journals, Magazines, Databases accordingly.
- E-Books repository is being created
- Archiving of Thumb impression Library
- Subscription for Plagiarism Checking Website

a). The Conventional Library

The mission of the IIITA Library is to provide information services and access to bibliographic and full text digital and printed resources to support the scholarly and information needs of the Institute Community. The Library is well equipped with modern facilities and resources in the form of CD-ROMs, Online databases, audio-video cassettes, books, e-journals, patents, e-standards, theses, project reports and Newspapers etc. The library homepage provides electronic access to various full text & bibliographical databases & e-journals. Links from the library homepage provide the information on library policies, hours, collections, services, sections and the location of materials. The library hosts all its catalogues online through web interfaces for search and status of documents and readers. It is also equipped with auto generated mailing services to the members for reservation of documents, issue / return notification, loan status, overdue status and new arrivals in the library. Students can locate the books of their choice from their desktop on a click. The web-enabled MIS used in the library is a software product and copyright of IIITA itself.

The IIITA Library is stocked with books that cater to the students' academic and research requirements. Audio and Multimedia versions of most of the course modules are available in electronic section. In addition dictionaries, thesaurus and encyclopedias are provided for reference purposes.

Procurement

Books or any other document for the library can be procured on the recommendation of faculty members Cross checking of the book(s) with requisition details given by the faculty member(s) Registration / Stock Entry of the received books



Database Entry and placement of the books

- Database entry of each and every book is done online according to the accession number which also indicates the location of book
- Books are placed in various shelf according to the shelf number
- At least one copy of every title is kept in the library for reference purpose

Circulation Process

Opening of library account and issuing of the books on the basis of Institute's Identity Card Online book reservation facility is available through OPAC if the book is not readily available in the library Auto generated e-mail alert facility for New Arrivals, Loan Status, Overdue Reminder and availability status of reserved books etc. is sent to every registered member.

Full Text Online E-resources

Online e-resource like – IEEE, ACM Springer, Elsevier – Science Direct (Computer Science), Elsevier – Science Direct (Management), Emerald Management and Sage Publication etc. subscribed by the Institute with IP authenticated (user name and password is not required), multiple user accessibility with unlimited download facilities are available within the Campus. Following are brief details of Library:

Sl. No.	Collection				
	Books	Online Journals	Magazine	CDs / Softwares	Lectures / Video Couses
1.	61891	12950	55	2850	1005

Following online full text databases are being subscribed by the Institute based on IP authenticated (Username and Password is not required) multiple user accessibility, full text of current and archival issues with unlimited download facilities –

1. ACM Digital Library
2. IEEE / IEE Electronic Library (Journals/Proceedings/ Standards)
3. EBSCO Business Source Ultimate
4. Institute of Physics
5. MathSciNet
6. American Physical Society
7. Springer Link
8. Emerald Management
9. Elsevier – SD (Computer Science/Business, Management & Accounting)
10. Sage Publication (Robotics Research)
11. JSTOR
12. Oxford University Press

Glimpses of IITA Library





Scholarship/Fellowship/ Assistantships

8. Scholarship /Fellowship /Assistantships

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:

Scholarships

S. No.	Name of the Scholarship	Eligibility Criteria	Amount Re-imbursable (in Rs.)
1	Post Matric Scholarships (State Wise)	As decided by the concerned State Governments. Some of them are :- (a) Uttar Pradesh Post Matric Scholarship (b) Madhya Pradesh Post Matric Scholarship (c) Bihar Post Matric Scholarship (d) Uttarakhand Post Matric Scholarship (e) Maharashtra Post Matric Scholarship (f) Andhra Pradesh Post Matric Scholarship (g) Telangana Post Matric Scholarship (h) Rajasthan Post Matric Scholarship *Others as given on National Scholarship Portal	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. Maintenance 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 IITAllahabad.
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.2,50,000/-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 disability. 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.6,00,000/- (Rupees Six 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. 30,000/- 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.

S. No.	Name of the Scholarship	Eligibility Criteria	Amount Re-imbursable (in Rs.)
6	Top Class Education Scheme for SC Students	1. The annual family income ceiling from all sources for eligibility under the Scheme is Rs.6.00 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 institutions (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.	1. Full tuition fee and other non-refundable charges (there is a ceiling of Rs.2 lakh per annum per student towards fee in the private institutions and Rs.3.72 lakh per annum per student in private commercial pilot training institutions). 2. Living expenses @ of Rs.2220 per month per student. 3. Books & stationery @ Rs.3000 per annum per student. 4. A latest computer with full accessories limited to Rs. 45000 per student as one time assistance (Living expenses, cost of books and stationery and computer are subject to actual).
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. In case of students studying in private sector institutions a ceiling of Rs. 2.00 lakh per annum per student will apply normally. 3. In case of students in private sector flying clubs for Commercial Pilot Training the ceiling is Rs. 3.72 lakh per annum per student. 4. Living expenses are paid as per actual, subject to maximum ceiling of Rs. 2200/- per month per student. 5. Expenditure on Books and stationery is paid @ Rs. 3000/- per annum per student. Cost of a latest computer along with accessories limited to Rs. 45,000/- as one time assistance during the entire course is paid to the student.
8	Central Sector Scheme of Scholarships for College And University Students	Students who are above 80th percentile 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.8.00 Lakh p.a.	The rate of scholarship would be Rs.1000/- p.m. at Graduation level for first three years of College and University courses and Rs.2000/- per month at Post-Graduation level. Students pursuing professional courses would get Rs.2000/- per month in the 4th and 5th year. The scholarship would be paid for 10 months in an academic 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 Statistics



9.1 Financial Statistics for the year 2018-19

CAPITAL (OH: 35):

The MHRD, Gol released Grant-in-aid Creation of Capital Assets (OH: 35) of Rs. 3,00,00,000/- during the Financial year 2018-19 to the Institute. The details are given below:-

Sanction No. (i)	Date (ii)	Amount (iii)
F.No. 45-/2018-TS.1 (GEN – 35)	23.05.18	2,62,80,000
F.No. 45-/2018-TS.1 (SC – 35)	23.05.18	24,60,000
F.No. 45-/2018-TS.1 (ST– 35)	23.05.18	12,60,000
Total amount		3,00,00,000

Against total available funds during the Financial year 2018-19 of Rs. 13,76,00,521/- {Opening balance: Rs. 9,96,56,000/- + Internal Accrual (Interest received): Rs. 79,44,521/- + Grant received: Rs. 3,00,00,000/-}, a sum of Rs. 6,61,58,000/- was utilized for the purpose for which the Grant was sanctioned leaving an unspent balance under Capital Head (OH: 35) of Rs. 7,14,42,521 as on 31.03.19 (Cash in Hand / Bank: Rs. 6,66,60,394/- + FDR against LC etc.: Rs. 47,82,127/-).

Salary (OH: 36):-

The MHRD, Gol released Grant-in-aid Salary (OH: 36) of Rs. 22,00,00,000/- during the Financial year 2018-19 to the Institute as per details given below:-

Sanction No. (i)	Date (ii)	Amount (iii)
F.No. 45-1/2018-TS.1 (GEN – 36)	07.06.18	5,25,60,000
F.No. 45-1/2018-TS.1 (SC– 36)	07.06.18	49,40,000
F.No. 45-1/2018-TS.1 (ST – 36)	07.06.18	25,00,000
Total amount (A)		6,00,00,000
F.No. 45-1/2018-TS.1 (GEN – 36)	14.08.18	3,50,40,000
F.No. 45-1/2018-TS.1 (SC– 36)	14.08.18	33,00,000
F.No. 45-1/2018-TS.1 (ST – 36)	14.08.18	16,60,000
Total amount (B)		4,00,00,000
F.No. 45-1/2018-TS.1 (GEN – 36)	10.09.18	1,75,20,000
F.No. 45-1/2018-TS.1 (SC– 36)	10.09.18	16,50,000
F.No. 45-1/2018-TS.1 (ST – 36)	10.09.18	8,30,000
Total amount (C)		2,00,00,000
F.No. 55-4 /2018-TS.1 (GEN – 36)	29.11.18	1,75,20,000
F.No. 55-4/2018-TS.1 (SC– 36)	29.11.18	16,40,000
F.No. 55-4/2018-TS.1 (ST– 36)	29.11.18	8,40,000
Total amount (D)		2,00,00,000
F.No. 45-1/2018-TS.1 (GEN – 36)	28.12.18	1,75,20,000
F.No. 45-1/2018-TS.1 (SC– 36)	28.12.18	16,40,000
F.No. 45-1/2018-TS.1 (ST – 36)	28.12.18	8,40,000
Total amount (E)		2,00,00,000
F.No. 55-4/2018-TS.1 (GEN – 36)	21.02.19	3,10,00,000
F.No. 55-4/2018-TS.1 (SC – 36)	21.02.19	55,00,000
F.No. 55-4/2018-TS.1 (ST – 36)	21.02.19	35,00,000
Total amount (F)		4,00,00,000
F.No. 55-4/2018-TS.1 (GEN – 36)	28.03.19	1,85,00,000
F.No. 55-4/2018-TS.1 (SC – 36)	28.03.19	11,00,000
F.No. 55-4/2018-TS.1 (ST – 36)	28.03.19	4,00,000
Total amount (G)		2,00,00,000
Net Total (A+B+C+D+E+F+G)		22,00,00,000



Against total available funds during the Financial year 2018-19 of Rs. 22,07,47,728/- {Grant received: Rs. 22,00,00,000/- + Interest received: Rs. 7,47,728/-}, a sum of Rs. 19,91,95,483/- was utilized for the purpose for which the Grant was sanctioned leaving an unspent balance under Salary Head (OH: 36) of Rs. 2,15,52,245/- as on 31.03.19.

General (OH: 31):-

The MHRD, GoI released Grant-in-aid General (OH: 31) of Rs. 14,58,74,000/- during the Financial year 2018-19 to the Institute as per details given below:-

Sanction No. (i)	Date (ii)	Amount (iii)
F.No. 45-1/2018-TS.1 (GEN – 31)	23.05.18	1,02,40,000
F.No. 45-1/2018-TS.1 (SC– 31)	23.05.18	9,74,000
F.No. 45-1/2018-TS.1 (ST – 31)	23.05.18	4,80,000
Total amount (A)		1,16,94,000
F.No. 45-1/2018-TS.1 (GEN – 31)	14.08.18	3,50,40,000
F.No. 45-1/2018-TS.1 (SC– 31)	14.08.18	33,00,000
F.No. 45-1/2018-TS.1 (ST – 31)	14.08.18	16,60,000
Total amount (B)		4,00,00,000
F.No. 45-1/2018-TS.1 (GEN – 31)	10.09.18	1,31,41,000
F.No. 45-1/2018-TS.1 (SC– 31)	10.09.18	12,35,000
F.No. 45-1/2018-TS.1 (ST – 31)	10.09.18	6,24,000
Total amount (C)		1,50,00,000
F.No. 55-4/2018-TS.1 (GEN – 31)	29.11.18	69,00,000
F.No. 55-4/2018-TS.1 (SC – 31)	29.11.18	6,90,000
F.No. 55-4/2018-TS.1 (ST – 31)	29.11.18	3,30,000
Total amount (D)		79,20,000
F.No. 45-1/2018-TS.1 (GEN – 31)	28.12.18	1,56,00,000
F.No. 45-1/2018-TS.1 (SC– 31)	28.12.18	15,70,000
F.No. 45-1/2018-TS.1 (ST – 31)	28.12.18	7,50,000
Total amount (E)		1,79,20,000
F.No. 55-4/2018-TS.1 (GEN – 31)	21.02.19	1,09,86,000
F.No. 55-4/2018-TS.1 (SC – 31)	21.02.19	27,86,000
F.No. 55-4/2018-TS.1 (ST – 31)	21.02.19	20,68,000
Total amount (F)		1,58,40,000
F.No. 55-4/2018-TS.1 (GEN – 31)	28.03.19	3,28,50,000
F.No. 55-4/2018-TS.1 (SC – 31)	28.03.19	30,90,000
F.No. 55-4/2018-TS.1 (ST – 31)	28.03.19	15,60,000
Total amount (G)		3,75,00,000
Net Total (A+B+C+D+E+F+G)		14,58,74,000

Against total available funds during the Financial year 2018-19 of Rs. 14,64,65,817/- {Grant received: Rs. 14,58,74,000/- + Interest received: Rs. 5,91,817/-}, a sum of Rs. 33,99,65,804/- was utilized for the purpose for which the Grant was sanctioned. Excess expenditure over and above released Grant-in-aid General (OH: 31) was met out from internal resources of the Institute.

9.2 Placement

Placement Data –Campus Recruitment in 2018-2019

B Tech & Integrated

Company	Student	Company	Student	Company	Student
Acko	3	HSBC (Striker)	5	PropTiger	5
Adobe	2	InfoEdge	3	Publicis Sapient	1
airtel	3	Infosys (PP)	5	Qualcomm	4
Amazon	5	Innovacer	1	RBS	1
Amdocs	1	Intuit	1	Rivigo	1
Arcesium	2	ION Trading	1	Sabre	6
Arista Networks	1	JDA	2	Samsung Bengaluru	5
Barclays'	1	Libsys	1	Samsung Noida	13
BNY Mellon	1	LinkedIn	3	Soroco	3
Capgemini	2	MakeMyTrip	2	Sumologic	1
Chegg	1	MAQ	1	Telstra	4
Cisco	3	Mathworks	1	Tesco	12
Citi Corp	10	Media.net	1	TransOrg	1
Cubastion	3	Microsoft	5	Treebo Hotels	1
D.E. Shaw	2	Mind Tickle	4	Uber	1
DeltaX	1	Mobikwik	4	UBS	13
Deutsche Telekom	1	Morgan Stanley	2	Valuefy	1
(T-Systems)		MotherSon Sumi	1	Vehant	1
Edelweiss	3	Newgen	3	Walmart Labs	5
Expedia	8	Nucleus	3	Western Digital	4
FactSet	6	Nurtr	1	Wipro	2
Fidelity Investments	6	Nutanix	2	Zendrive	2
Flipkart	6	Nykaa.com	4	Zolostays	1
GE	1	Oyo	5	Zomato - 24	1
Go-Jek	1	PayTM	12	ZScaler	1
Goldman Sachs	6	PayU	2	Zulip	1
HSBC (Acer)	1	Philips	6		

Placement Data –Campus Recruitment in 2018-2019

M Tech

Company	Student	Company	Student	Company	Student
Addverb Technologies	1	Infosys (PP)	1	Philips	4
Amdocs	1	Infosys (SES)	3	Qualcomm	2
Capgemini	2	ION Trading	1	Tesco	2
Cisco	1	JDA	2	Western Digital	1
Dolcera	1	Nagarro	1	WNS Global	1
Eaton	3	Nykaa.com	1		
Goldman Sachs	1	Oracle Labs, Zurich	1		

9.3 Medals and Awards

Chairman's Gold Medal



NIKITA JAIN
(RIT2015020)

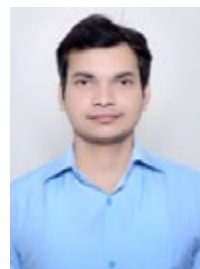
M. Tech. (ECE)



ANUPAM KUMARI
(IMI2017003)



PRASHANT KUMAR
(IMI2017001)



BHARAT BHUSHAN UPADHYAY
(IMI2017006)

M. Tech. (IT)



ANIRBAN SARKAR
(ISE2017002)



MAINAK DUTTA
(IRO2017009)



NIKITA GOEL
(ICL2017009)

MBA

AMRITA KULSHRESHTHA
(IMB2017004)



EKTA KUMARI
(IMB2017001)



PAWAN KUMAR PANDEY
(IMB2017002)

5 Years Dual Degree B. Tech. - M. Tech.

Yogeshkumar Rajeshkumar Gupta
(IRM2014004)



MANKALI LAKSHMI LIKHITHA
(IMM2014004)



ABHINAV VINCI
(IIM2014501)

B. Tech. (IT)

NIKITA JAIN
(RIT2015020)



RAGHAV SABOO
(IIT2015042)



PRIYANKA SINGLA
(IIT2015504)

B. Tech. (IT)

AAYUSH KHATRI
(IEC2015036)



GAURAV PANDEY
(IEC2015071)



SULEKHA KUMARI
(IEC2015502)

9.4 Events

9.4.1 Mega Event of the Year

Dated: 13 October, 2018



As the institute goes beyond 2020 with a sorted strategy and initiatives, it is important to keep a few target benchmarks, at least for a few years. The institute organized a mega event naming “Beyond Twenty by 2020” and the curtain raiser was done by Hon’ble Vice-President of India Shri V. Naidu, and the Hon’ble Chief Minister, Uttar Pradesh Shri Yogi Aditya Nath, dated on 13th October, 2018.



(Emblem for commemoration of Vision “**Beyond Twenty by 2020**”)

Messages from Eminent Personalities



प्रकाश जावडेकर
Prakash Javadekar



मंत्री
मानव संसाधन विकास
भारत सरकार
MINISTER
HUMAN RESOURCE DEVELOPMENT
GOVERNMENT OF INDIA

MESSAGE

I am happy to note that Indian Institute of Information Technology, Allahabad has planned to bring out a Vision Document titled : 'Vision for Beyond Twenty by 2020' at this interesting point of time, when the institute is turning into its 20th year. The institution is one of the very first IIITs established to impart high quality education in Information Technology and allied areas.

This initiative by IIIT-Allahabad to bring a roadmap in the form of a vision document is both timely and appropriate, keeping in view that higher education is undergoing major changes to keep pace with global demands and national requirements. The illustrious achievements of this Institute which has been manifested by its Alumni and Faculty members, will certainly propel the institute to leap towards higher frontiers of knowledge and applications. I am confident that, IIIT-Allahabad will keep on producing highly skilled knowledge creators and come out with novel innovations, which would influence the life of common people of India.

I compliment IIIT-Allahabad and all its stakeholders on this initiative.


(PRAKASH JAVADEKAR)



Secretary Higher Education, MHRD



R. Subrahmanyam, IAS
Secretary



Ministry of Human Resource Development
Department of Higher Education
Government of India

September 19, 2018

MESSAGE

I am pleased to note that Indian Institute of Information Technology-Allahabad is coming out with a VISION document, entitled Beyond Twenty by 2020. It is a good move that the Institute has identified the direction for its growth for future particularly when it is completing 19 years of its existence. The expectation of MHRD, Govt. of India happens to be in similar line, that every CFTI should formulate and finalize its VISION and identify the future course of action.

I take pleasure in congratulating IIIT Allahabad. I am sure that IIIT-Allahabad comes out with definite strategies and plans to accomplish and rise to newer height.


(R. Subrahmanyam)



Flag Off to Beyond Twenty

Shri Ravi Kant

Chairman, BOG

I am very pleased that the Indian Institute of Information Technology, Allahabad will be stepping into its 20th year in 2019. It is an important milestone to have a look at the past and also look to the future.

IIIT Allahabad has established itself as a premier Institute in Information Technology. It has created a very nice campus with beautiful buildings, playgrounds and a gymkhana. Its class rooms and labs generate energy and its Hostel and living accommodation are comfortably pleasant. The Institute's infrastructure is fully complemented by the quality of its faculty. It attracts brilliant students every year, many of whom after passing out are doing outstanding work in India and Overseas.

It is good that the institution is developing a document entitled "*Beyond Twenty by 2020*".

Today we are in the midst of unprecedented changes, which are far more disruptive than caused by the previous industrial revolutions. The coming together of Robotics, Artificial Intelligence, Big Data, the Internet of Things, Machine Learning, Artificial and Virtual Reality on one hand and rapid urbanization, climate change and socio political trends on the other hand are throwing up unprecedented levels of challenges as well as opportunities. The future of work and indeed the future of living itself is undergoing cataclysmic transformation putting a great stress on individuals requiring totally new architecture and solutions by society.

It is indeed a golden opportunity for IIIT Allahabad to excel itself by being much more proactive to contribute positively to the economy of the country as well as to participate in the ongoing 4th Industrial Revolution to steer it in a constructive and positive direction. By doing this IIIT Allahabad will be a name shining like gold across the world.

I wish IIIT Allahabad all the best in this endeavor.

A handwritten signature in blue ink, which appears to read 'Ravi Kant'.

Shri Ravi Kant

Chairman, BOG



Having successfully completed 19 years of excellence, standing tall against the tides of time in an uncertain and dynamic IT industry; stepping into the Twenties is a matter of great pride and excitement for any institution. At the same time, entering the golden age of twenties also calls for higher responsibilities so as to be a world leader. While turning into twenty-one cherishes a mysterious pleasure of enjoying the newly found autonomous status, while equally the person would also be tensed with the responsibility of planning the future. Indian Institute of Information Technology Allahabad (IIITA) is going through this phase after completing its 19 years of its worthy existence since August 1999. In order to introspect how we did all these years, to critically analyze and to comprehensively understand our standing today, and to plan how we should go ahead we have pulled out our courage to bring out this document, entitled “Vision Beyond Twenty by 2020”. This document is a brief summary of the phases of academic and infrastructure development in the past years along with the new initiatives, plans, and strategies for its future endeavor. As per the expectation of MHRD, Government of India, every CFTI needs to formulate and finalize its VISION and identify the future course of action. On this pretext, the institute is going to conceptualize its future course of actions for becoming a globally recognized place of learning and research.

Preface

by Prof. P. Nagabhushan, Director, IIIT Allahabad

I am thrilled to write a preface for the VISION document ventured by IIIT-Allahabad. Any action in the right direction requires a right plan. More than a right plan, it requires the right courage to dream the plan well in advance, and share it with the peers, so that a right direction gets evolved. That is the reason, as a Director of the Institute, I am thrilled to congratulate IIIT-Allahabad to have exhibited the right courage that it possesses to share that the Institute is capable of dreaming, which surely is also a sacred responsibility standing at the juncture of turning into 20th years of its existence since 1999. It is appropriate to recollect what Honourable Dalailama said- “In order to carry out positive action, we must develop a positive vision”. Hellen Keller’s quote, “The only thing worse than being blind is having sight but no vision” supplements, why IIIT-Allahabad deserves to be complemented on its effort to scribe the VISION document, which is rightly described as Beyond Twenty by 2020.

The VISION statement leads to the MISSION to be adopted, to ensure the happening. What Honourable Abdul Kalam said, “If you want to shine like Sun, first burn like a Sun”, narrates how VISION and MISSION are perfectly interwoven. If to shine like a Sun the VISION, the MISSION has got to be burn like a Sun.

If I could be allowed to summarise the VISION of IIT-Allahabad, I am amazed at the noble goal set forth by IIIT-Allahabad, that its vision is to CREATE the CREATORS AND THE Mission is CREATING. In this context I like to quote Honourable Abdul Kalam, “We should not give up and we should not allow the problem to deflect us”. Therefore we have fixed up our goal post and therefore we understand in which direction we should move. Coming out with a vision document overcomes our inhibitions and reservations. It gives us confidence, courage and commitment to realize our objective.

I appreciate Prof. U. S. Tiwary’s effort to realize the dream of bringing out the VISION document with his relentless planning. The responsibility that Prof. U. S. Tiwary holds as Dean, Human Affairs proved very advantageous, in receiving the inputs and pulses of all stakeholders, faculty and staff through formal, nonformal and in-formal means in drawing the scaffolding of the VISION. Dr. Pritish Varadwaj, Associate Dean (Planning, Monitoring & Evaluation) could carry out the herculean task of transforming the skeleton structure of VISION into a Document. His responsibility as Associate Dean to plan, to monitor and to evaluate, geared him up to carry out the job very objectively. Dr. Rahul Kala has been greatly helpful in providing the final touches.

While stepping into young adulthood, crossing the Teens to turn to Twenties, a man cherishes the mysterious pleasure of enjoying the newly found autonomous status, while equally would also be tensed with the newly found responsibility of planning the future. The VISION document brought out by IIIT-Allahabad reflects all these.

I am very hopeful and sure that IIIT-Allahabad has all the potential and it puts its excellent effort to rise to newer height; and we are aware that, “Excellence is a continuous process and not an accident”.



Vision and Mission Statement

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 in developing trained human resource to be engaged in Research, Development, Industry/Corporate and Education, Knowledge creation in the areas of Information Technology. The institute is committed to intill a scientific and research aptitude with an academic rigor and innovation aptitude among its members. It seeks to develop an interdisciplinary community with mix of diverse people, ideas and culture which will work towards serving the Nation and the World.





Deliverables expected Beyond 2020

As the institute goes beyond 2020 with a sorted strategy and initiatives, it is important to keep a few target benchmarks, at least for a few years for now. Here we enlist the key targets and activities to be performed in the coming years, in realization of the ambitions.



Academics:

In academic front, the institute is currently offering various programmes at Undergraduate, Postgraduate level with the total student strength is 2127 students. However, we are also planning to introduce four new programmes in coming years, which are

1. B. Tech. In IT with specialization in Mass Media Informatics: Mass Media has been a buzz word lately with a drastic surge in the mechanisms of producing new items, coverage of the news items, and the disruptions of the social media in the conventional media. Today, Information Technology is embedded into every aspects of traditional media, resulting in the need to have an interdisciplinary study of Information Technology with Mass Media and Journalism that is proposed into a B. Tech. program in IT with specialization Mass Media Informatics.
2. B. Tech. In IT with specialization in Business Informatics: The current business units are producing diverse data at a fast pace and decision making is now completely data driven, requiring modern industry leaders to be able to interpret, analyze and visualize data, while reasoning the decisions with the underlying data. This also stresses on the need to re-model any business to make it informatics oriented for more efficient operations. Understanding the same needs of the industry it is proposed to start a B. Tech. Program with specialization in business informatics.



Many extraordinary talented students take up a B. Sc. course only to later realize that a B. Tech. is more productive in the current Indian Business. Many students who opt for 3 years B. Sc. Program in Computer Science and Electronics as specialization. Inspite they perform brilliantly well, they feel the lack of a professional degree in their favour. As on now the Govt. of India permits these candidates into lateral entry to B. Tech./B. E. Programs which however requires three more years. IIT Allahabad proposes that these candidates particularly with Computer Science / Electronics specialization have already earned sufficient number of credits in the respective discipline as envisaged in the respective branches of B. Tech to facilitate these students have an easy migration into B. Tech. programs, thereby also opening a channel for the institute to take highly talented students. It is proposed to take B. Sc. Students in Computer Science/IT/Electronics leading to M. Tech. in IT/Electronics, through two unique programs: (i) Post B. Sc. (in Computer Science/IT) which lead to M. Tech. in IT and (ii) Post B. Sc. (in Electronics) which leads to M. Tech. in ECE.





Looking into the new course works, it is apparent that the number of student will increase to approximate strength of 2900 and the faculty strength need to be elevated to minimum 150 by the end of 2020. Similarly the staff will also be projected to be at 160 by the end of next five years. A summarized projected vies of faculty, staff and student number in coming five years are given below:

Faculty	2018-19	2019-20	2020-21	2021-22	2022-23
Regular Faculty	65	80	95	110	125
Adjunct/Visiting Faculty	05	10	15	20	25
Staff	75	100	120	140	160

(Year wise projected faculty and staff strength for coming five years)

Program	Total Student Now	2018-19	2019-20	2020-21	2021-22	2022-23
B. Tech. Course	1200	1300	1400	1500	1600	1600
M. Tech. - IT/ECE/Bioinformatics (including Dual Degree)	280	380	480	580	680	780
Master of Business Administration (MBA) (including Dual Degree)	152	152	152	152	152	152
Ph. D.	150	200	250	300	350	400
Total	1782	2032	2282	2532	2782	2932

(Year wise projected student strength for coming five years)

Infrastructure:

The institute wants to emphasize to the role of IT in diverse areas like Bioinformatics, Cheminformatics, Image Processing, Biomedical Informatics, Diagnostic Devices, Data Informatics, Bio-Mems, Automated Drug Delivery Systems, Smart City and IOT related projects etc. In order to carry out these activities it is necessary for the students to make working prototypes for the implementation. Therefore this kind of tinkering lab and workshops are required within the said incubation and innovation centre. Further, to cater with the said projected strength and to provide an overall improvement of its student, the institute is coming up with following infrastructure back-ups in coming three years.

S. No.	Building/Unit	Area
1	Construction of Indoor Sports Complex with space provisioning for Student Activity Centre	14500 Sq. Mts
2	Construction of Lake and Biodiversity Park	6000 Sq. Mts.
3	Construction of an Innovation and Incubation Complex	6000 Sq. Mts.
4	Construction of Geodesic Shaped Glass Dome Structure/Signature Building	4500 Sq. Mts.

With great dedication, strategic planning, deliberations and vision, IIIT Allahabad has thus carefully drafted its futuristic plan of action that will drive the institute in the coming years. The high ambition and dedicated efforts of all members of the IIIT Allahabad family, motivate envisioning a bright future wherein the institute will stand tall as major global player, adapting quickly to the needs and requirements of the industry and academia, while providing highly skilled manpower with a social responsibility in mind, who would sculpture the future of the world.

9.4.2 Other Events of the Year

Date	Subject
21 June, 2018	The International Yoga Day: The International Yoga day was celebrated with great enthusiasm by IITAllahabad. Hundreds of students, teachers and employees participated in the event by doing aasanas, pranayam, meditation etc on the Jhalwa campus here. Prof. P. Nagabhushan, Director, IIITA inaugurated the program.
14 July, 2018	Deep architectures are playing the most important role in the area of machine learning and are considered as the future technology and anticipated a complete paradigm shift in the area of artificial intelligent by the researchers. It is considered to be one of the most active areas of research in signal, image, vision, and biometrics and comprises of supervised and unsupervised models of approach for detection/ recognition/ classification/ synthesization of objects. With the advent of extraordinary computation power and huge data sets, it is possible to model the most complex processes using deep architectures. With the advent of Deep learning architectures, almost all areas of signal processing have undergone significant changes in their approach. This is primarily because machine learning is at the forefront of solving many problems in computer signal, image, vision and biometrics which were thought to be either unsolvable or highly computationally intensive in the past. One of the key ideas which have facilitated this is the introduction of deep architectures, which form the basis of present-day pattern-based recognition problems. The proposed Two-week course will be comprised of approximately 40 lectures followed by 14 hours' worth of lab demonstration and hands-on approach is intended to help the participants familiarise themselves with Signal & Image Processing, Computer Vision, Biometrics and Machine Learning and pertains to how all of the approaches can be applied to research problems in real life. The course also covers essentials of machine learning, deep neural networks as well as the other models how they can be applied to solve practical problems in computer vision so that more people become interested in signal processing.
15 August, 2018	Marathon for Peaceful Coexistence: On the joyous occasion of Independence Day, Sports Council is organizing the "Marathon for Peaceful Coexistence". IIITA to croon Ye Hai Time India Ka : to celebrate 70 years of Independence and 75 years of Quit India movement, the Indian Institute of Information Technology, Allahabad organized a rock concert on Friday. The programme, Yeh India Ke Time Hai, was being organised as per directives of Human Resource Development Ministry initiative. IIITA is one of the 75 selected institutions in the country for holding this special programme. The bands are being identified and deputed by the ministry of Information and broadcasting through the National Film Development Corporation (NFDC). Famous Delhi Indie Project band from New Delhi will present the programme at IIITA.
8 September, 2018	13 th Convocation of IIITA: As many as 486 students of the Institute of Information Technology, Allahabad were awarded degrees on Saturday. Medals were awarded to 23 meritorious students while 25 research scholars were conferred with PhD degree. Nishit Gupta was awarded the Chairman's Gold Medal for 2018. Nishit Gupta, Tirth Vikramkumar Jani and Sahil Prakash were awarded gold, Silver and bronze medals respectively for B Tech (IT). In B Tech (ECE), Ayush Singh got gold, Ankit Arora Silver and Shantal Raj bronze medal. For MBA degree, Manas Singh was given gold, Utkarsh Sarkar Silver and Nitish Kumar Singh bronze. In five year integrated M. Tech (Biomedical Engineering), Aamna Lawrence got Gold, Shatakshi Singh and Rakhi Agarwal got Silver and Himanshu Kumar Bronze. M. Tech (IT) Aqsa Javed (IBI) gold, Devender Kaushik (ISE) Silver and Mainak Bhattacharya (IWC) bronze. Padma Vibhushan Dr. R. Chidambaram and Padma Bhushan Prof. Lord S. K. Bhattacharyya have grace this occasion by their presence & remarkable speeches delivered as Chief Guest and Guest of Honour.



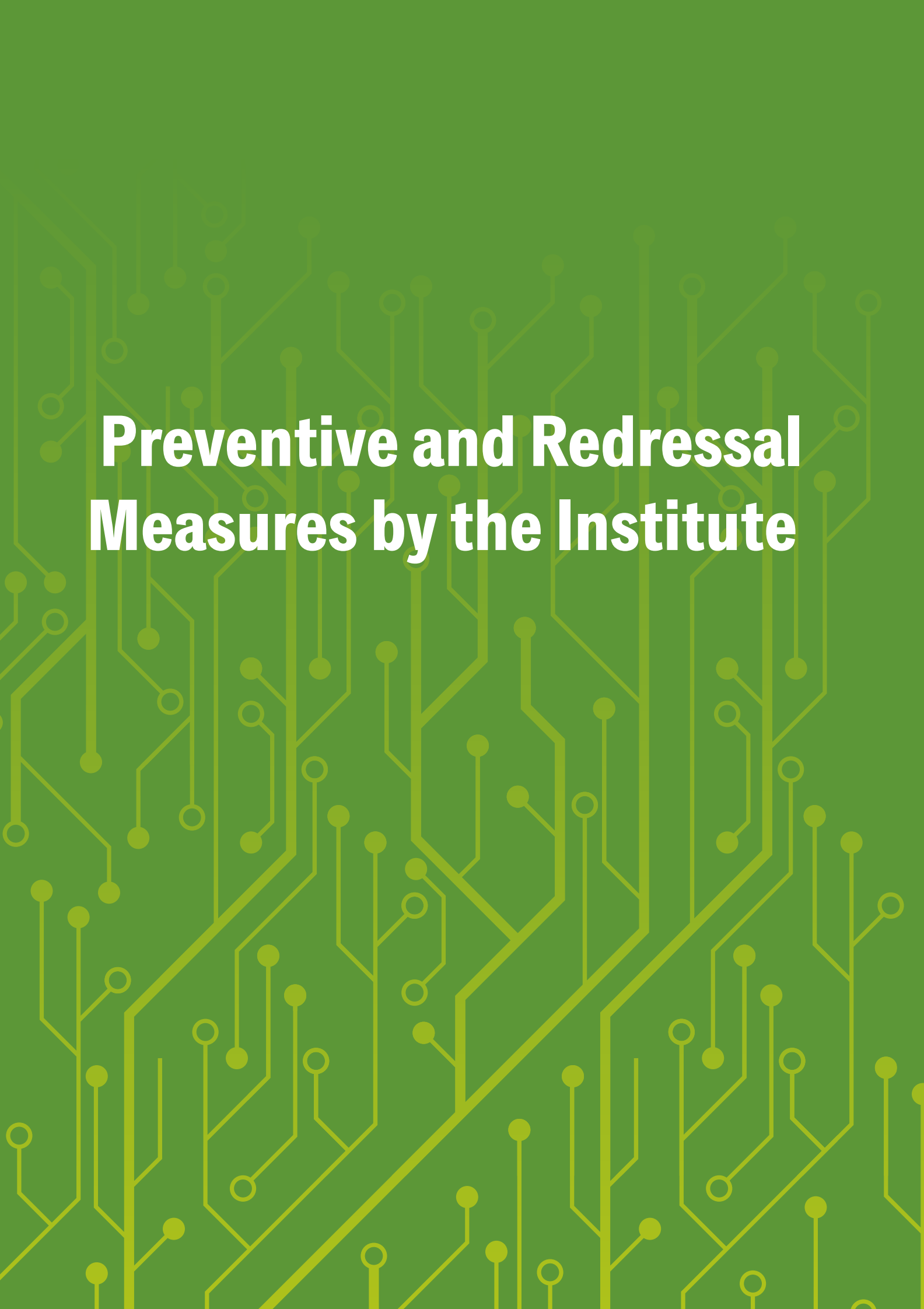
Date	Subject
04-07 October, 2018	Effervescence is the annual cultural festival of IIIT Allahabad. It is one of the most monumental festivals across colleges in North India. This fest brings to light the essence and ethos of IIIT Allahabad. Effervescence -2018, the four-day cultural fiesta of IIITA witnessed the performance of National and International artists this year.
31 October, 2018	ट्रिपलआईटी में पटेल जयंती राष्ट्रीय एकता दिवस के रूप में मनायी गयी। संस्थान निदेशक प्रो. पी. नागभूषण ने राष्ट्रीय एकता दौड़ रन फार यूनिटी को हरी झंडी दिखाकर खाना किया। कहा कि सरदार पटेल ने देश की एकता व अखंडता के लिए पूरा जीवन लगा दिया। दौड़ में शामिल लोगों को देश की एकता व अखंडता की शपथ दिलायी गयी।
29 October - 03 November, 2018	Vigilance Awareness Week at IIITA: Essay and slogan writing competitions were organized at Indian Institute of Information Technology, Allahabad (IIITA) under the Vigilance Awareness week. The topic for this year was “Eradicate Corruption- Build a New India”
07 December, 2018	10th International Conference on Intelligent Human Computer Interaction (IHCI 2018): The international conference series on Intelligent Human Computer Interaction (IHCI) is forum for the presentation of technological advances and research results at the crossroads of human-computer interaction, artificial intelligence, signal processing and computer vision. They bring together engineers and scientists from around the world.
14 -17 February, 2019	“Asmita” the sixth annual sports event of Indian Institute of Information Technology, Allahabad kicked off in a colorful ceremony at Jhalwa campus under the aegis of Beyond Twenty by 2020. Every year during even semester, the sport enthusiast of various colleges come together in the campus of IIITA to take part in the competitive sporting serience.
28 March, 2019	IIITA organized popular technofest known as ‘Aparoksha’ which conducted every year at the institute’s Jhalwa campus. The opening ceremony of this year’s Aparoksha started in the evening from 6 p.m. in the main auditorium in presence of Professor P Nagabhushan, Director IIIT Allahabad. The fest goes on for four days and its theme for this year is ‘Beyond The Wall’. It is a great platform for students and technology enthusiasts to exhibit their technical prowess. The fest comprises innumerable technical and cultural events and performances by various artists. The major events of Aparoksha include ‘Hacking competitions, which is the biggest hackathon of North India that is held by students, coding events like ‘cfresh’, ‘alkhwarizm’, ‘codered’ and ‘humblefool cup’. The cybersecurity event ‘BOOT2Root’, the robotics events ‘Robowar’ and ‘TopBot’ and the design event ‘Nova’ are other interesting events. Different colleges from India participate in this fest including the IITs, NITs, and IIITs. Aparoksha provides open panel discussion session, Confab. The topic of discussion for this year was “How political parties use technology to influence the minds of voters”. Eminent personalities like Pankaj Pachauri, the CEO and Founder of Gonews and Rohit Chahal who is a media spokesperson were also present.

9.5 Examination Results

Sl. No.	Convocation	Convocation Date	Academic Session	Name of Course	No. of Students Passed				Total
					Boys		Girls		
					With Honors	Without Honors	With Honors	Without Honors	
1	First	09.09.2003	Jul 1999- Jun 2003	B.Tech. (IT)	31	20	0	0	51
2	Second	21.10.2005	Jul 2000- Jun 2004	B.Tech.(IT)	26	31	0	3	60
			Jan 2001 - Dec 2004	B.Tech.(IT)	13	14	2	0	29
			Jul 2001 - Jun 2005	B.Tech.(IT)	48	66	2	1	117
3	Third	12.08.2006	Jul 2002 - Jun 2006	B.Tech.(IT)	29	30	5	2	66
4	Fourth	12.08.2008	Jan 2003 - Dec 2006	B.Tech.(IT)	15	20	7	1	43
			Jul 2003 - Jun 2007	B.Tech.(IT)	40	61	4	3	108
			Jul 2004 - Jun 2008	B.Tech.(IT)	32	73	2	6	113
5	Fifth	19.08.2009	Jul 2004 -Jun 2008	B.Tech.(IT)	1	7	0	0	8
			Jul 2005 - Jun 2009	B.Tech.(IT)	39	94	5	5	143
6	Sixth	12.08.2011	Jul 2004 - Jun 2008	B.Tech.(IT)	0	2	0	0	2
			Jul 2006 - Jun 2010	B.Tech.(IT)	49	113	6	6	174
			Jul 2006 - Jun 2010	B.Tech.(IT)	0	3	0	0	3
			Jul 2007 - Jun 2011	B.Tech.(IT)	42	101	7	3	153
			Jul 2006 - Jun 2010	B.Tech.(ECE)	17	29	4	3	53
			Jul 2007 - Jun 2011	B.Tech.(ECE)	15	31	5	4	55
7	Seventh	21.09.2012	Jul 2007 - Jun 2011	B.Tech.(IT)	8	13	0	0	21
			Jul 2008 - Jun 2012	B.Tech.(IT)	45	107	10	8	170
			Jul 2007 - Jun 2011	B.Tech.(ECE)	2	2	0	0	4
			Jul 2008 - Jun 2012	B.Tech.(ECE)	13	42	4	4	63
8	Eighth	18.12.2012	Special Convocation						
9	Ninth	10.03.2014	Jul 2009 - Jun 2013	B.Tech.(IT)	42	160	7	14	223
			Previous Batch	B.Tech.(IT)	0	3	0	0	3
			Jul 2007 - Jun 2011	B.Tech.(ECE)	0	1	0	0	1
			Jul 2008 - Jun 2012	B.Tech.(ECE)	0	3	0	0	3
			Jul 2009 - Jun 2013	B.Tech.(ECE)	23	53	3	6	85



Sl. No.	Convocation	Convocation Date	Academic Session	Name of Course	No. of Students Passed				Total
					Boys		Girls		
					With Honors	Without Honors	With Honors	Without Honors	
10	Tenth	09.11.2015	Jul 2010 - Jun 2014	B.Tech.(IT)	54	161	22	15	252
			Jul 2011 - Jun 2015	B.Tech.(IT)	57	165	17	24	263
			Previous Batch	B.Tech.(IT)	0	1	0	0	1
			Jul 2010 - Jun 2014	B.Tech.(ECE)	22	60	8	6	96
			Jul 2011 - Jun 2015	B.Tech.(ECE)	17	58	6	5	86
			Previous Batch	B.Tech.(ECE)	0	5	0	0	5
11	Eleventh	24.09.2016	Jul 2012 - Jun 2016	B.Tech.(IT)	74	163	19	25	281
			Previous Batch	B.Tech.(IT)	0	1	0	0	1
			Jul 2012 - Jun 2016	B.Tech.(ECE)	19	56	8	3	86
			Previous Batch	B.Tech.(ECE)	0	1	0	0	1
12	Twelfth	09.09.2017	Jul 2013 - Jun 2017	B.Tech.(IT)	72	136	32	19	259
			Previous Batch	B.Tech.(IT)	0	2	0	0	2
			Jul 2013 - Jun 2017	B.Tech.(ECE)	27	40	7	8	82
			Previous Batch	B.Tech.(ECE)	0	4	0	0	4
13	Thirteenth	08-09-18	Jul 2014- Jun 2018	B.Tech.(IT)	73	128	14	26	241
			Previous Batch	B.Tech.(IT)	0	8	0	2	10
			Jul 2013 - Jun 2017	B.Tech.(ECE)	22	42	7	5	76
			Previous Batch	B.Tech.(ECE)	0	2	0	0	2
14	Fourteen	14-09-2019	July 2015-June 2019	B.Tech. (IT)	74	129	17	16	236
			Previous Years	B.Tech. (IT)	00	04	00	00	04
			July 2015-June 2019	B.Tech. (ECE)	08	59	05	05	77
			Previous Years	B.Tech. (ECE)	00	00	00	00	00

The background of the slide is a solid green color with a complex, abstract pattern of yellow and light green lines and dots. These lines resemble a circuit board or a network diagram, with many small circles at the intersections and ends of the lines. The pattern is dense and covers the entire background.

Preventive and Redressal Measures by the Institute

10. Preventive and Redressal Measures by the Institute

10.1 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 and in supersession to the Office order No. IIITA/RO/017/2019, I am directed to convey that the following Grievance Committee has been re-constituted by the Competent Authority w.e.f. 17.01.2019 for a period of two years or till further orders.

1. Dr. Madhvendra Misra	Chairman
2. Dr. Pavan Chakraborty, Outgoing Chairman	Member
3. Dr. Vijay Chaurasiya, Faculty Representative	Member
4. Mr. Sanjay Kumar, Staff Representative	Member
5. Mr. Ajay Kr. Tiwari, Officer Representative	Member
6. Mr. Rajat Ghosh, Contractual Staff Representative	Member
7. Dr. Abdullah Bin Abu Baker, Minority Representative	Member
8. Dr. S. Venkatesan, SC/ST/OBC Representative	Member
9. Dr. Vijayshri Tewari, Women Representative	Member
10. Mrs. Padma Singh, Social Activist	External Member
11. Gymkhana Representative	Member
12. Dr. Pallavi Dixit	Secretary

Dr. Madhvendra Misra is designated as fulltime Grievance Officer of the Institute. He will be assisted by the Grievance Redressal Committee 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 Grievance Officer is desired to amicably and promptly remove all grievances of students, employees and public at large relating to the Institute. He will, on an application/complaint filed before him and also on suo-moto, inquire into the matter and require parties to the grievances to file papers, adduce evidence and afford opportunities to the parties for examination and cross examination as per law of the land and after proper hearing, make a reasoned recommendation in all cases for action by the Director and shall maintain a record in that regard.

In discharge of his duties, he 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.

10.2 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) Dr. Vijayshree Tiwari, Head, Dept. of Management Studies	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

10.3 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:

1. Institute level Anti-ragging Committee

- | | | |
|--|---|----------|
| • Dean, Students' Affairs | - | Chairman |
| • Head of the Division | - | Member |
| • Warden/Counselor of the concerned Hostel | - | Member |
| • Registrar/Dy. Registrar/Assistant Registrar of Institute | - | Member |
| • Legal Counsel | - | Member |
| • Nominated person | - | Member |

2. Institute level Anti-ragging Squads

- | | | |
|---------------------------------------|---|----------|
| • Dean, Students' Affairs | - | Chairman |
| • Assistant Proctor (two by rotation) | - | Member |
| • Security Officer | - | Member |
| • One M.Tech/Ph.D. Student nominated | - | Member |
| • Warden (nominated) | - | Member |

3. Hostel Level Anti-ragging Squads

- Warden of the Hostel
- Two Prefects
- One representative of Fresher's

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.

10.4 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.



11. Student's Gymkhana 2018-19

11.1 Councils

Presidential Council

Sanchit
Speaker
PWC2015003

Shivam Kumar Singh
Vice President
IMB2018004

Indrajeet Sinha
Member
PCL2016004

Prakhar Chaturvedi
President
IHM2016001

Arpit Sharma
General Secretary
IEC2017506

Raghav
Member
PCL2016001

Secretariat

Naga Meherchand Pulavarty
Cultural Council Secretary
IIT2017001

Siddhant Kumar
Sports Council Secretary
IIT2017012

Animesh Jha
Academic Council Secretary
ICM2017001

Ekansh Bansal
Technical Council Secretary
IEC2017016

Harsh Bhardwaj
Student welfare council Secretary
IEC2017066

11.2 Activities of Gymkhana

The Indian Institute of Information Technology, Allahabad has been a center of excellence in academia, sports and technology for over 21 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 has for long, been considered a brilliant tool to groom and mold students into team players and leaders. IIIT A has continually endeavored to push the boundaries in all disciplines. IIITAllahabad 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.

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:

1. To foster and develop all student activities in the Institute.
2. To promote and develop organizational abilities in students.
3. Identify student issues and promote discussion on them.
4. To develop a well-informed, articulate and participative student community life, and to increase social awareness.

Student's Gymkhana together with its councils and societies, is successfully organizing several events in the Institute. Some of the important events organized by various councils of Gymkhana are listed below:

1. Sports Council

The IIIT Allahabad Sports Society brings you the spirit of life, the spirit of competition, the spirit to win, the spirit to participate and ultimately prove the one within you. We have the energy, the courage and the enthusiasm



to bring to you the most lively sports events of IIITA. It's events like Gully Cricket; Street Football etc. are most interesting during fest.

ASMITA:

The Sports Council of Gymkhana Organize three days Annual Sports Meet named ASMITA in the Month of February Every Year. During ASMITA, various competitive track and field events are organized. ASMITA gives a platform to the students, faculty and staff members of the Institute to showcase their physical and mental ability to compete in various track and field events organized during the three days of February. This time, the level of ASMITA was taken up a notch with students from various other institutes coming in to showcase their sporting talents. This Year, an inter IIIT Sports was organized, comprising of various sports tournament. It helped foster true sportsmanship, friendship and a sense of co-operating amongst students.

In addition to ASMITA, Sports Council also organizes the annual Independence Day marathon and participates in other intra college events. Teams from IIIT Allahabad have participated in sports meets in several colleges including IIIT Gwalior, MNNIT Allahabad, and IIT BHU among others and have outperformed teams from all across the country to make us all proud.

Apart from ASMITA, there are various indoor and outdoor sporting events taking place throughout the year including Basketball, Volleyball, Football, Chess, etc so as to help bring out the varied ability of students.

2. Technical Council

Without our amazing Technical Council, we wouldn't have half of the events at our fests. Continuing with our marvel superheroes theme, the Technical Society is definitely is the Batman -the silent guardian and watchful protector looking out for all of us.

Aparoksha:

The Technical Council of Gymkhana Organizes three days Annual Technical Festival named Aparoksha in the Month of March every year. Aparoksha is the technical spectacle of the IIIT in which students from our institute as well as others colleges show off their technical prowess in the events held as a part of the fest.

During Aparoksha, various competitive technical events are organized. Aparoksha gives a platform to the students, faculty and staff members of the Institute to showcase their technical and analytical ability to compete and won various events organized during the three days of March. Apart from competitive events many technical workshops are being organized during Aparoksha which let the students to have hands on experience in the fields of many upcoming technologies. In addition to all this, inception of a new Hackathon, IIITA Hacks took place which had enthusiastic participation and promises to be an event for the future.

Some of the events successfully conducted during Aparoksha' 19 are as follows:

- a. **C-Fresh:** A competitive coding event comprising of two rounds, exclusively for fresher's for enhancing their coding skills.
- b. **Code Queen:** A competitive coding event, exclusively for the female coders. It consists of two rounds, online and an on-site round.
- c. **Code Red:** It is the flagship coding event of Aparoksha with prizes up to 1.25L.
- d. **Alkhwazim:** A rated competitive coding event consisting of only one online round.
- e. **Gray Hound:** It is the flagship quizzing event of Aparoksha.
- f. **HumbleFool Cup:** It is an online programming event organized during Aparoksha, in the fond memory of Late Harsha Suryanarayana.
- g. **B00t2root:** A Jeopardy style CTF Challenge.
- h. **She-Hacks:** An all-girls Hackathon, with prizes worth up to 15k.
- i. **Hack In The North:** This is the biggest student organized Hackathon in India with prize money up to Rupees One Lakh. Taking place during Aparoksha, this event has had participants from all over the country ready to hack and build.

Apart from the tech-fest, the technical council manages two technical societies:

1. **Geekhaven:** It is the Technical society of IIIT- Allahabad. It has the following wings:
 - a. FOSS
 - b. Web Development
 - c. Competitive Coding

- d. App Development
- e. Design
- f. Software Development
- g. Cyber Security
- h. Artificial Intelligence
- i. Blockchain

These wings organize a number of workshops and tech talks to make the students familiar with the respective domains and help them choose one of these domains and kick-start a career in it.

Geekhaven also organizes a number of events :

- a. **PRAGMA**- A series of Design and Dev workshops and talks.
 - b. **Prototype**- An All-India Hackathon, with prizes worth up to rupees 80k.
 - c. **Tech-Talks**- It also organizes a number of tech-talks by the alumina of the institute and other renowned people. This year a tech-talk by the founder of GFG was organized by the society.
2. **Tesla**: It is the Electronics and Automation Society of IIITAllahabad. It has 3 wings- **Robotics**, **IOT** and **EDA**. It organizes the following events:
- a. **WOLF of 2311**- Exhibit your technical and entrepreneurship skills in 2311, the premier electronics lab of IIIT Allahabad. It is another of our events held during Aparoksha, the annual technical fest of IIIT Allahabad.
 - b. **Technofault**- "CORRECTION is more difficult than CREATION". If you can think in circuits This is for you "TECHNOFAULT" , a circuit debugging Competition.
 - c. **Topbot**- Topbot is the flagship robotics competition of IIIT Allahabad. It is held during Aparoksha, the annual Technical Fest of the college.
 - d. **Electronics**- An event where you show your Love to Electronics. Solve the problems presented in this event during Aparoksha and prove that you are a true lover.

2. Cultural Council

This council is responsible for the promotion cultural activities in order to preserve the heritage of the Institute and inculcate among students, a sense of cultural unification.

Effervescence:

The Cultural Council of Gymkhana Organizes three days Annual Cultural Festival named Effervescence in the Month of October Every Year. During Effervescence, various competitive cultural events are organized. Effervescence gives a platform to the students, faculty and staff members of the Institute to showcase their extracurricular ability to compete and won various events organized during the three days of October. Apart from competitive events many workshops and other fun filled activities are organized during Effervescence which let the students to de-stress from the academic activates and rejuvenate them to perform better in the academic activities. The events organized during Effervescence are as follows:

a. Model United Nations

The Literary Club of the institute successfully conducted the IIITA Model United Nations Conference for the first time ever. The two day conference needs a special mention, as it tested the mettle of a student as a delegate and representative of another country and helped them in transforming as better citizens and leaders.

b. Cognoscentia

One of the most awaited events, the brain wreaking quiz contest witnessed participation from some of the best quizzers of the nation, and brought out the best of brains and most aware minds. The audience was enthralled by the vast knowledge of the participants.

c. Foot Loose (Group Dance)

The main stage event on is" October was judged by eminent choreographers of the city and saw massive participation from different institutes and dance academies.

d. Carpe diem (Solo Dance)

One cannot forget the solo dance competition of Effervescence, Carpe Diem where the participants set



the stage on fire. This year the heart grooving event took place on 17th October and had participation from many top notch colleges.

e. La Frenze(Duet Dance)

The third and final event of the dance society took place on 16th October where more than 15 teams performed dance numbers and the ones that qualified for the second round were supposed to perform impromptu face offs.

Stunning Du was introduced first time in this year. This was an event to discover the most talented duo in the Institute. The objective of this event was to find the imagination, creativity, and flexible ways of thinking among the participants. The reason of forming couples at the time was to find their adaptability among them.

f. Tasveer

The flagship event for the Acoustics and Media Society, Tasveer was held during the cultural fest Effervescence. This is a themed event open for students from all around the country. With a handsome prize money at stake, Tasveer had enthusiastic participation from 100 colleges from all around the country.

g. Incendiary - Battle of the Bands

Incendiary, the battle of the bands took place during Effervescence as a two round events, the prelims and the final round. People were amazed and astonished at the amazing performances put up by various bands from all around the country. The judges had a hard time taking a call while the audience were enthralled by the rock performances.

Apart from this, the cultural council manages a number of societies which organize the events related to their respective domains. The following societies come under the cultural council of Gymkhana:

1. Literary Society

It organizes debates, extempore and other literary competitions. It is also responsible for publishing Hues magazine for in-campus circulation. Literary Society is the place to take halt and unveil your talent of appreciating the beauty of expression.

Apart from holding a wide variety of events in the cultural fest Effervescence, Sarasva, the Literary Society was responsible for organizing the only TedX held in the city of Allahabad. With speakers from different walks of life coming in and sharing their valuable experience surely was a day to remember. The following events were conducted by the Society during the academic year 2018-19:

- **Litathon-** An event exclusively for the freshers, consisting of fun as well as brain-storming rounds.
- **Feathers-** An online writing event conducted by the society during effervescence.
- **Meme slam-** An event where you can show your skills at making memes and win prizes literally just for making people laugh.
- **Group Discussions-** Various enriching group discussion sessions were organized.
- **Brain Brawl-** A 3 round quizzing event which was organized by the society members for the students of the institute.
- **Fresh Verses-** An online writing competition exclusively for the freshers.
- **Dumb Charades-** As the name suggests, a game of acting and guessing was also organized by the society.
- **Ted* IIITA-** A Ted talk organized by the team of Sarasva alongside some enthusiastic students who are interested in helping with the organizing team.

2. Acoustics and Media Society

The institute is proud to have the services of this Society, which has been very efficient in managing lights, audio equipment, visual recording of various events staged at IIITA. All the audio and lights works of college events taken care by this society as a whole. Learners are also welcomed. Following events organized during this academic year:

- **Exploracion-** An online competitive photography event, exclusively for freshers in which they need to explore the institute and click some awesome pictures.
- **Safar-** An online event where you can share your travelling experiences with everyone through photographs.
- **Portrait Mysteria-** An online photography event in which you click some mysterious portraits

3. Music Society

The Music Society of Gymkhana is responsible to provide a platform to 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. The society attends various concerts and musicals during the year.

- **Chords-** A non-competitive music show.
- **Psychedelia-** A non-competitive music band event
- **Melodiux-** A competitive singing event
- **Confuzon-** Anevensemestermusic event
- **Unplugged-** Western Acoustic music event

4. Dance Society

Synergy of thought, symphony of movement, artistic expression and a sense of idyllic beauty - this symbolizes the GeneticX Crew of the dance society. It is one of the most active societies of IIIT -A. It manages dance performances in Effervescence and other society events. The society has performed various dance forms.

- **Flash Mob-** A Promotional event of EFFERVESCENCE.
- **Show Off-** An online competitive dance event.

5. Dramatics Society

The dramatics society at IIIT Allahabad, RangTarangini is responsible for organizing workshops (acting as well as scriptwriting) and holding drama competitions where young talent can be showcased. The society has been active in staging excellent performances both in, Hindi and English at various occasions.

- **Bindass Bol-** The competitive Nukkad natak event.
- **Innovation-** Onstage Play competition, held during effervescence
- **Vine Yard-** Online vine-making competition.
- **Kahani-** An online competitive event to test script-writing skills.
- **Tongues on Fire-** an event in which you debate over common topics.
- **Drama Nights-** A competitive onstage play event held in the even semester.
- **Admad-** A fun event to test your knowledge of advertisements, brands and put to test, your acting skills.
- **Double Trouble-** A fun event in which a team of two is assigned small tasks and judged accordingly.

6. The Fine Arts Society

The Fine Arts Society endeavors 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.

- **Sketchers-** Online sketch making competition.
- **Toon con-** An event for those interested in sketching caricatures and rapid fine-arts.
- **Face-Painting-** A competition amongst teams of two in which a team member paints the face of the other.
- **Craft-arena-** If you are good at craft, then this event is for you to participate and win.
- **Graffiti-** An event where you can scribble some interesting stuffs on the wall and win.

7. Social Outreach Programs of the Institute

IIIT Students are also involved in organizing many social outreach activities like PRAYAS, which helps economically weaker students in their studies and work towards their overall upliftment. IIIT also organizes many blood donation camps round the year to help the needy people. IIIT also involved in promoting SWATCH BHARAT ABHIYAN and time to time organize activities and events under its banner. Also, various events from the MHRD were promoted by the Students' Gymkhana with the ever growing support of the faculty members and the students of the institute.



Annexures

BOARD OF GOVERNORS, IIITALLAHABAD

(As on March 2019)

Chairman

Prof. P. Nagabhushan
Director, IIIT Allahabad

Member

Shri Sukhbir Singh Sandhu
AS (TE) & CVO,
(IITs, NITs, IIITs, TE, SPA, TEQIP and Vigilance),
MHRD, New Delhi

Dr. Jaideep Kumar Mishra
Joint Secretary & Group Coordinator (HRD)
Ministry of Electronics & Information
Technology (MeitY), New Delhi

Prof. Abhay Karandikar
Director, IIT Kanpur

Prof. K.N. Badhani
Director, IIM Lucknow

Prof. Arvind Choubey
Director, IIIT Bhagalpur, Bihar

Prof. Manindra Agrawal
Deputy Director, IIT Kanpur

Shri Rahul Singh
Managing Director, GAPL

Dr. Anand Bulusu
Associate Professor,
Dept. of Electronics & Computer Engineering,
IIT Roorkee

Additional Chief Secretary
Dept. of IT & Electronics, Govt. of U.P., Lucknow

Prof. Shekhar Verma
Dean (IRPM), IIIT Allahabad

Prof. U.S. Tiwary
Dean (Human Affairs), IIIT Allahabad

Dr. Shirshu Varma
Registrar (Acting), IIIT-Allahabad

Shri O.P. Srivastava
Deputy Registrar (F&A)
IIIT Allahabad

Senate (As per IIITs Act, 2014)

Sl. No.	Provision as per IIITs Act 2014	Under Section of IIIT Act 2014	Members
1	Director of the Institute, Ex-officio	16 (1) (a)	Prof. P. Nagabhushan Director, IIIT-Allahabad
2	Deputy Director, Ex-officio	16 (1) (b)	NIL
3	Deans, Ex-officio	16 (1) (c)	1) Prof. Tapobrata Lahiri, Dean (Academic & Research)
4			2) Prof. U.S. Tiwary, Dean (Human Affairs)
5			3) Prof. Shekhar Verma, Dean (IPR)
6			4) Prof. Anupam, Dean (Technology & Promotion Affairs)
7	Heads of the Dept. of the Institute	16 (1) (d)	1) Dr. Pritish Varadwaj, HoD (Applied Sciences)
8			2) Dr. Rajat Kumar Singh HoD (Electronics & Communication Engineering)
9			3) Dr. Vrijendra Singh HoD (Information Technology)
10			4) Dr. Vijaiyshri Tiwari HoD (Management Sciences)
11	All Prof. other than the Deans or HoDs	16 (1) (e)	1) Prof. G.C. Nandi Advisor (Quality, Assessment & Assurance)
12			2) Prof. O.P. Vyas, Professor
13			3) Prof. Shirshu Varma, Professor
14	Three persons from amongst educationists 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	16 1) (f)	1) Dr. K. Sethupathi, Professor, Department of Physics, IIT, Madras
15			2) Prof. Shekhar Majumdar, Professor Deptt. of Mechanical Engineering, MNIT Bangalore
16			3) Prof. A. G. Ramakrishna, Professor, Dept. of Ellectricals, IISc., Bangalore
17	Three persons who are not members of teaching staff co-opted by the Senate for their specialized knowledge	16 1) (g)	1) Prof. Rajiv Tripathi Director, MNNIT, Allahabad
18			2) Dr. Sumit Ganguli, Dept. of Computer Science & Engineering, IIT Kanpur
19			3) Prof. Chidananda Gowda, Ex. Vice Chancellor, Kuvempu University
20	Registrar of the Institute, Ex-officio	16 (1) (h)	Dr. Shirshu Varma Registrar (Acting)

Finance Committee

Chairman

Prof. P. Nagabhushan
Director
IIIT Allahabad

Member

Shri Prashant Agarwal
Director (IITs'/IIITs')
MHRD, New Delhi

Shri Munish Malik
Chief Executive Officer
NPS Trust, New Delhi

Shri Anil Kumar
Director (Finance)
MHRD, New Delhi

Prof. P. Nagabhushan
Director
IIIT Allahabad

Shri Anjan Das
Executive Director – Technology
Confederation of Indian Industry (CII)
Gurgaon, Haryana

Sri O.P. Srivastava
Deputy Registrar (Finance & Accounts)
IIIT-Allahabad

Building & Works Committee

Chairperson

Prof. P. Nagabhushan
Director,
IIIT-Allahabad

Member

Prof. Shekhar Verma
Dean, IPRM, IIIT-Allahabad

Shri Sanjay Sharma
Sr. Consultant,
IT & Electronics Department,
Govt. of U.P., Lucknow

Shri. Anil Kumar Sharma
Chief Engineer, CPWD, Lucknow

Shri Rajiv Garg
Superintending Engineer, IIT- Kanpur

Shri Rajeev Kumar Singh
Superintending Engineer,
Distribution, UPPCL, Allahabad

Member Secretary

Dr. Shailendra Kumar
Estate Officer, IIIT- Allahabad

Student's Placement 2018-2019

S. No.	Student	Company	Course
1	Vipul Singh	MotherSon Sumi	B.Tech
2	Nitesh Singh Munda	Expedia	B.Tech
3	Kankshit Tyagi	UBS	B.Tech
4	Piyush Govil	InfoEdge	B.Tech
5	Piyush Gupta	Nykaa.com	B.Tech
6	Naveen Loudya	Amdocs	B.Tech
7	Anchal Kumar	Flipkart	B.Tech
8	Danish Iqbal	Infosys (SES)	B.Tech
9	Pratyush Tripathi	Nykaa.com	B.Tech
10	Saksham Chawla	Morgan Stanley	B.Tech
11	Ayush Bansal	Microsoft	B.Tech
12	Nitish Kajala	Samsung Noida	B.Tech
13	Srikanth Sangani	Nucleus	B.Tech
14	Megha Mishra	Amazon	B.Tech
15	Shuchi Dwivedi	Tesco	B.Tech
16	Ananya Anand	HSBC (Striker)	B.Tech
17	Nitin Patel	Mobikwik	B.Tech
18	Neeraj Kumar	Mobikwik	B.Tech
19	Alok Kumar	Libsys	B.Tech
20	Saurabh Kaushal	PropTiger	B.Tech
21	K. Pruthvi Raj	UBS	B.Tech
22	Redith Mehtani	Adobe	B.Tech
23	G Hemanth Reddy	ZScaler	B.Tech
24	Pushpendra Yadav	Sabre	B.Tech
25	Singh Shailendra Shrinivas Maharani	Newgen	B.Tech
26	Vandana Yadav	PayTM	B.Tech
27	Shivani Pal	MotherSon Sumi	B.Tech
28	Anurag Kushwaha	Nucleus	B.Tech
29	Himanshu Kumar	Cubastion	B.Tech
30	Devraj Sen	Valuefy	B.Tech
31	Rajat Mishra	Samsung Noida	B.Tech
32	Moukthik Etikala	Expedia	B.Tech
33	Ashish Kumar Maurya	Mobikwik	B.Tech
34	Siddharth Singh	Sabre	B.Tech
35	Niketan Verma	Samsung Noida	B.Tech
36	Kartik Mehrotra	Infosys (PP)	B.Tech
37	Deepak Vinchurkar	Capgemini	B.Tech
38	Aseem Shrey	Publicis Sapiant	B.Tech
39	Shikha Singh	LinkedIn	B.Tech
40	Siddharth Aacharya	LinkedIn	B.Tech
41	Aman Kumar Dokania	Tesco	B.Tech
42	Vicky Saini	Samsung Noida	B.Tech

S. No.	Student	Company	Course
43	Saurabh Katiyar	Oyo	B.Tech
44	Ayush Agarwal	Expedia	B.Tech
45	Akansha Bhardwaj	Arista Networks	B.Tech
46	Arun Singhal	Samsung Bengaluru	B.Tech
47	Rajani Priya Mishra	Mathworks	B.Tech
48	Arpit Gupta	BNY Mellon	B.Tech
49	Manuj Singh	DeltaX	B.Tech
50	Priyank Agarwal	Expedia	B.Tech
51	Akhil Kumar Singh	HSBC (Striker)	B.Tech
52	Rohan Nayak	Amazon	B.Tech
53	Darsheel Aman	FactSet	B.Tech
54	Mehul Gupta	Flipkart	B.Tech
55	Mohd. Azam Hayat	Telstra	B.Tech
56	Bhupendra Singh	Sabre	B.Tech
57	Jyotsna Rastogi	Tesco	B.Tech
58	Ajay Agarwal	Amazon	B.Tech
59	Nikita Jain	Microsoft	B.Tech
60	Tejendra Kumar	Tesco	B.Tech
61	Pranjal Agarwal	PayU	B.Tech
62	Krishna Kumar Maurya	PayTM	B.Tech
63	Abhishek Singhal	Edelweiss	B.Tech
64	Pranjal Paliwal	Go-Jek	B.Tech
65	Priyam Bansal	PayTM	B.Tech
66	Suraj Singh	Expedia	B.Tech
67	Harsh Gupta	HSBC (Striker)	B.Tech
68	Shivangi Singhal	Goldman Sachs	B.Tech
69	Anurag Verma	Samsung Noida	B.Tech
70	Pranav Maheshwari	Philips	B.Tech
71	Mukul Jaiswal	FactSet	B.Tech
72	Vishal Sah	Sumologic	B.Tech
73	Kartikey Singh	TransOrg	B.Tech
74	Angkita Hazarika	UBS	B.Tech
75	Medha Falguni Rai	Tesco	B.Tech
76	Geetika Bakshi	Telstra	B.Tech
77	Suyog Surana	InfoEdge	B.Tech
78	Pushpendra Soni	Goldman Sachs	B.Tech
79	Sayantan Chatterjee	Zomato - 24	B.Tech
80	Ankur Dengla	Citi Corp	B.Tech
81	Nimish Dussad	Qualcomm	B.Tech
82	Saurabh Mishra	Mind Tickle	B.Tech
83	Priyanshu Kumar	Uber	B.Tech
84	Kautish Jaiswal	LinkedIn	B.Tech
85	Souvik Sen	D.E. Shaw	B.Tech
86	Priyanka Singla	Goldman Sachs	B.Tech
87	Raghav Ranjan	Flipkart	B.Tech



S. No.	Student	Company	Course
88	Shiv Pratap Singh	Media.net	B.Tech
89	Shivam Garg	Qualcomm	B.Tech
90	Sai Akhil Aloor	Fidelity Investments	B.Tech
91	Dipendra Singh Shekhawat	Mind Tickle	B.Tech
92	Shyam Kotecha	Amazon	B.Tech
93	Anurag Kumar	Citi Corp	B.Tech
94	Vishal Kumar Singh	Tesco	B.Tech
95	Thotapalli Sadvi Ramana	Microsoft	B.Tech
96	Santosh Kumar	PayTM	B.Tech
97	Vaibhav Bansal	Walmart Labs	B.Tech
98	Sama Praveen	Newgen	B.Tech
99	Mubaris N.K.	Citi Corp	B.Tech
100	Manish Thakur	FactSet	B.Tech
101	Aakash Malik	Expedia	B.Tech
102	Pallavjeet Singh Nirwan	PayU	B.Tech
103	Gayatri Balaga	PayTM	B.Tech
104	Abhishek Negi	Mobikwik	B.Tech
105	Tanisha Kesari	FactSet	B.Tech
106	Deepak Kumar Yadav	Mind Tickle	B.Tech
107	Aayush Goyal	Flipkart	B.Tech
108	Rajatbir Singh Bajwa	Citi Corp	B.Tech
109	Indresh Attri	Samsung Bengaluru	B.Tech
110	Chaitanya Yadav	Tesco	B.Tech
111	Gourab Dey	Walmart Labs	B.Tech
112	Niharika Vallambatla	Nykaa.com	B.Tech
113	Anusha Nimmala	MAQ	B.Tech
114	Faheem Hassan Zunjani	airtel	B.Tech
115	Subhash Kumar	Samsung Noida	B.Tech
116	Kadimetla Jaya Pavan Kumar Reddy	JDA	B.Tech
117	Jhatothu Gopi Sivanandh	Cubastion	B.Tech
118	Narendula Manigeeth	Nutanix	B.Tech
119	Sai Praneetha M	Citi Corp	B.Tech
120	Yash Bhatia	Samsung Bengaluru	B.Tech
121	Ashwin Aishvarya Vardhan	GE	B.Tech
122	Sanginadham Anudeep	HSBC (Striker)	B.Tech
123	Priya Singh	UBS	B.Tech
124	Prajjawal Agarwal	Mind Tickle	B.Tech
125	Aditya Dewan	Barclays'	B.Tech
126	Vinay Pandey	InfoEdge	B.Tech
127	Pranjul Tripathi	Zendrive	B.Tech
128	Anand Mandloi	Samsung Noida	B.Tech
129	Praveen Ronald Tudu	Samsung Noida	B.Tech
130	Tushar Murarka	Sabre	B.Tech
131	Himanshu Gusain	Soroco	B.Tech
132	Arpit Bahety	Citi Corp	B.Tech

S. No.	Student	Company	Course
133	Pranjal Sanjanwala	Flipkart	B.Tech
134	Atul Kumar Sinha	Tesco	B.Tech
135	Khushahal Gadpayale	Tesco	B.Tech
136	Swapnil Sharma	Acko	B.Tech
137	Akash Kumar	PayTM	B.Tech
138	Shubham Bhandari	Western Digital	B.Tech
139	Harpahul Bhatia	Innovacer	B.Tech
140	Roshan Kumar	Infosys (PP)	B.Tech
141	Ayush Bhatt	Goldman Sachs	B.Tech
142	Ayan Sheik	Microsoft	B.Tech
143	Jitendra Kumar	Philips	B.Tech
144	Anurag Bhardwaj	Expedia	B.Tech
145	Tushar Jandial	Microsoft	B.Tech
146	Shubham Padia	Zulip	B.Tech
147	Rohan Chaudhary	Cisco	B.Tech
148	Yash Gupta	MakeMyTrip	B.Tech
149	Piyush Arora	Western Digital	B.Tech
150	Umang Narwal	Chegg	B.Tech
151	Aditi Rai	UBS	B.Tech
152	Rishabh	Zendrive	B.Tech
153	Akash Shivaram	Telstra	B.Tech
154	Abhishek D Nandan	Citi Corp	B.Tech
155	Soumik Chatterjee	Walmart Labs	B.Tech
156	Jayesh Patil	Soroco	B.Tech
157	Marturu Rajkumar	Newgen	B.Tech
158	Dinesh Pentakota	Expedia	B.Tech
159	Tanmay Jaiswal	PayTM	B.Tech
160	Prabhat Rudrapratap Singh	UBS	B.Tech
161	Shyam Sunder	Oyo	B.Tech
162	Arpita Jaiswal	Acko	B.Tech
163	Supreet Kaur Sandhu	airtel	B.Tech
164	Payal Prasad	Cisco	B.Tech
165	Diwakar Vinay Moturu	Zomato - 24	B.Tech
166	Nitesh Gupta	Tesco	B.Tech
167	Shobhit Upadhaya	PropTiger	B.Tech
168	Aishwarya Dutt Maurya	Flipkart	B.Tech
169	Rishabh Rai	UBS	B.Tech
170	Sakshi Singh	Fidelity Investments	B.Tech
171	Harsh Vardhan	Walmart Labs	B.Tech
172	Jayesh Chaudhari	Goldman Sachs	B.Tech
173	Vikash Kumar Chaudhary	UBS	B.Tech
174	Raghav Saboo	D.E. Shaw	B.Tech
175	Srikar K.V.S.	airtel	B.Tech
176	Nishant Verma	Telstra	B.Tech
177	Vipul Kumar	PropTiger	B.Tech



S. No.	Student	Company	Course
178	Dil Dileep	Philips	B.Tech
179	Rohan M. Rayareddi	Nutanix	B.Tech
180	Shefali Verma	Fidelity Investments	B.Tech
181	Chandrakant	Walmart Labs	B.Tech
182	Dileep Kumar Nagadusari	Sabre	B.Tech
183	Chinmoy Das	Western Digital	B.Tech
184	Praveen Pourush	Nucleus	B.Tech
185	Somya Verma	Goldman Sachs	B.Tech
186	Harsh Gupta	Morgan Stanley	B.Tech
187	Gulshan Kumar	Infosys (PP)	B.Tech
188	Utkarsh Gupta	Rivigo	B.Tech
189	Aashi Pundir	FactSet	B.Tech
190	Anshul Srivastava	Innovacer	B.Tech
191	Prince Nanda	Arcesium	B.Tech
192	Sudeept Dwivedi	Arcesium	B.Tech
193	Kaustubh Rakesh	PropTiger	B.Tech
194	Richa Vinian	Intuit	B.Tech
195	Sandeep Kumar Singh	UBS	B.Tech
196	Aditya Sapra	Tesco	B.Tech
197	Aditya Pimparkar	airtel	B.Tech
198	Ram Kishor	Vehant	B.Tech
199	Tarun Jain	Deutsche Telekom (T-Systems)	B.Tech
200	Ayush Raj	Fidelity Investments	B.Tech
201	Kunal Gupta	Tesco	B.Tech
202	Aditya Narayan Gupta	Adobe	B.Tech
203	Rahul Gyawali	PayTM	B.Tech
204	Deepak Avvari	FactSet	B.Tech
205	Rajat Saxena	UBS	B.Tech
206	Sulekha Kumari	Citi Corp	B.Tech
207	Rahul Agarwal	Samsung Bengaluru	B.Tech
208	Noor U Din Baba	Capgemini	B.Tech
209	Neha Oraon	Samsung Noida	B.Tech
210	Pawan Kumar	Sabre	B.Tech
211	Arunav Bhatnagar	HSBC (Acer)	B.Tech
212	Rachit Parashar	Qualcomm	B.Tech
213	Akshay Kumar	PayTM	B.Tech
214	Shivam Singh	Soroco	B.Tech
215	Podili Sai Phani Krishna	JDA	B.Tech
216	Subham Choudhury	Philips	B.Tech
217	Amarjeet Singh	Samsung Noida	B.Tech
218	Papisetty Rohit	Philips	B.Tech
219	CH Sowmya	Wipro	B.Tech
220	Gaurav Pandey	Cisco	B.Tech
221	Ashwin Siddarth Tagade	Qualcomm	B.Tech

S. No.	Student	Company	Course
222	Atul Kumar Maurya	Nykaa.com	B.Tech
223	Naveen Manikanta Kodigudla	Oyo	B.Tech
224	Nitish Verma	Samsung Noida	B.Tech
225	Anmol Chawla	Oyo	B.Tech
226	Vivek Tiwari	Zolostays	B.Tech
227	Annam Phanindra	MakeMyTrip	B.Tech
228	Sameer Namdeo	Edelweiss	B.Tech
229	Sonal Gupta	UBS	B.Tech
230	Kollalsi Rohith	Infosys (PP)	B.Tech
231	Neha Kandpal	RBS	B.Tech
232	Vikas Shukla	Samsung Bengaluru	B.Tech
233	Shikhar Chittransh	Edelweiss	B.Tech
234	Akriti Gupta	RBS	B.Tech
235	Kunal Mittal	Acko	B.Tech
236	Vaishnavi Rani	Fidelity Investments	B.Tech
237	Ayushi Nirmal	Citi Corp	B.Tech
238	Shubham Bagadi	Cubastion	B.Tech
239	Aayush Khatri	Citi Corp	B.Tech
240	Roopesh Krishna	Nurtr	B.Tech
241	Asmit Gupta	HSBC (Striker)	B.Tech
242	Akhilesh Soni	Samsung Noida	B.Tech
243	Bharti Saini	PayTM	B.Tech
244	Abhishek Roy	UBS	B.Tech
245	Sagar	Wipro	B.Tech
246	Ritvik Jain	Oyo	B.Tech
247	Sushmita Gayen	ION Trading	B.Tech
248	C.L. Pavan Chandra Mouli	Treebo Hotels	B.Tech
249	N. Shamukha Sudheendra	UBS	B.Tech
250	Akash Tiwari	PayTM	B.Tech
251	Govind Singh	Samsung Noida	B.Tech
252	Satyarth Agrahari	Amazon	B.Tech
253	Naveen Kewalramani	PropTiger	B.Tech
254	Jainender Kumar	PayTM	B.Tech
255	Rajeev Dixit	Western Digital	B.Tech
256	Kadaganchi Mahendar	Philips	B.Tech
257	Rajkumar Gupta	Fidelity Investments	B.Tech
258	Abhinav Vinci	Codenation	5 Yr. M.Tech
259	Akanshu Gupta	Nutanix	5 Yr. M.Tech
260	Ayonya Prabhakaran	Intuit	5 Yr. M.Tech
261	Swarnima Dixit	Intuit	5 Yr. M.Tech
262	Srijan Sharma	Morgan Stanley	5 Yr. M.Tech
263	Tara Prasad Tripathi	Morgan Stanley	5 Yr. M.Tech
264	Anujraaj Goyal	Morgan Stanley	5 Yr. M.Tech
265	Yogesh Gupta	Rivigo	5 Yr. M.Tech



S. No.	Student	Company	Course
266	Yash Sharma	Flipkart	5 Yr. M.Tech
267	Arun Kumar Reddy	Flipkart	5 Yr. M.Tech
268	Mohammad Abdullah	Flipkart	5 Yr. M.Tech
269	Shubham Swarnkar	Flipkart	5 Yr. M.Tech
270	Aneesh Epari	Mind Tickle	5 Yr. M.Tech
271	Kritika Sharma	Adobe	5 Yr. M.Tech
272	Maharshi Roy	Adobe	5 Yr. M.Tech
273	Amrit Daimary	Zendrive	5 Yr. M.Tech
274	Aditya Kumavat	Innovacer	5 Yr. M.Tech
275	Jatin Goel	Qualcomm	5 Yr. M.Tech
276	Nazish Tabassum	Qualcomm	5 Yr. M.Tech
277	Abhinav Mishra	Qualcomm	5 Yr. M.Tech
278	Lakshmi Likhita Mankali	Qualcomm	5 Yr. M.Tech
279	Neelanjana Jaiswal	Qualcomm	5 Yr. M.Tech
280	Akshat Agarwal	Mathworks	5 Yr. M.Tech
281	Pratyush Singh	Samsung SSIR	5 Yr. M.Tech
282	Abhilasha Singh	Samsung SSIR	5 Yr. M.Tech
283	Sree Ratan Tej Maddukari	Samsung SSIR	5 Yr. M.Tech
284	Anish Kumar Sahu	Samsung SSIR	5 Yr. M.Tech
285	Sumedha Agarwal	Visa	5 Yr. M.Tech
286	Harpreet Singh	airtel	5 Yr. M.Tech
287	Ajay Saini	airtel	5 Yr. M.Tech
288	Imran Beg	Deutsche Telekom (T-Systems)	5 Yr. M.Tech
289	Dheeraj Yadav	Nykaa.com	5 Yr. M.Tech
290	Eashwer Ram B	Citi Corp	5 Yr. M.Tech
291	Rohit Raj	Chargebee	5 Yr. M.Tech
292	Surendra Pal Uikey	Chargebee	5 Yr. M.Tech
293	Vishvajeet Patil	Chegg	5 Yr. M.Tech
294	Sanghpriya	HSBC (Acer)	5 Yr. M.Tech
295	Vanshraj Singh	HSBC (Acer)	5 Yr. M.Tech
296	Sannihith Kavala	Telstra	5 Yr. M.Tech
297	Harshit Anand	Oyo	5 Yr. M.Tech
298	Rajat Kumar Sahu	Oyo	5 Yr. M.Tech
299	Vishesh Middha	Oyo	5 Yr. M.Tech
300	Kshitij Tripathi	Oyo	5 Yr. M.Tech
301	Pruthvi Anvesh	Oyo	5 Yr. M.Tech
302	Pranav Pandey	Deutsche Bank	5 Yr. M.Tech
303	Aditya Agarwal	Axxela	5 Yr. M.Tech
304	Ashish Kumar Singh	Samsung Noida	5 Yr. M.Tech
305	Rohit Vishwakarma	Samsung Noida	5 Yr. M.Tech
306	Anshul Tyagi	Samsung Noida	5 Yr. M.Tech
307	Ravi Chavda Kumar	Samsung Noida	5 Yr. M.Tech
308	Saurabh Singh	Samsung Noida	5 Yr. M.Tech
309	Gautham Santhosh	Addverb Technologies	5 Yr. M.Tech

S. No.	Student	Company	Course
310	Akhilla Jetty	UBS	5 Yr. M.Tech
311	Vishal Chauhan	UBS	5 Yr. M.Tech
312	Atul Raj	PayTM	5 Yr. M.Tech
313	Shubham Vashishtha	PayTM	5 Yr. M.Tech
314	Ajay Pilania	PayTM	5 Yr. M.Tech
315	Roohasri Reddy Ravula	HSBC (Striker)	5 Yr. M.Tech
316	Rishab Verma	HSBC (Striker)	5 Yr. M.Tech
317	Nagendra Singh	HSBC (Striker)	5 Yr. M.Tech
318	Biki Choudhury	MAQ	5 Yr. M.Tech
319	Varun Kumar	Wipro	5 Yr. M.Tech
320	Ayush Shukla	Capgemini	5 Yr. M.Tech
321	Jeevan Sai Jinne	Eaton	5 Yr. M.Tech
322	Zubin Singh	Amdocs	5 Yr. M.Tech
323	Rajaneesh Polavarapu	Oracle Labs, Zurich	2 Yr. M.Tech
324	Priyanshi Agarwal	Goldman Sachs	2 Yr. M.Tech
325	Divya Sachdeva	Western Digital	2 Yr. M.Tech
326	Anirban Sarkar	Tesco	2 Yr. M.Tech
327	Prachi Agarwal	Tesco	2 Yr. M.Tech
328	Prashant Kumar	Qualcomm	2 Yr. M.Tech
329	Mainak Dutta	Qualcomm	2 Yr. M.Tech
330	Saby Gupta	Cisco	2 Yr. M.Tech
331	Ranveer Sachin Kumar Uttamrao	Nykaa.com	2 Yr. M.Tech
332	Shrishti Sengar	ION Trading	2 Yr. M.Tech
333	Anshul Verma	Addverb Technologies	2 Yr. M.Tech
334	Hemantharaj M	Addverb Technologies	2 Yr. M.Tech
335	Pawan Kumar	Philips	2 Yr. M.Tech
336	Shruti Jain	Philips	2 Yr. M.Tech
337	Sonu Patidar	Philips	2 Yr. M.Tech
338	Umesh Singh	Philips	2 Yr. M.Tech
339	Sahil Tomar	Eaton	2 Yr. M.Tech
340	Rakhee Sahu	Eaton	2 Yr. M.Tech
341	Diksha Gupta	Eaton	2 Yr. M.Tech
342	Rakesh Sharma Talari	JDA	2 Yr. M.Tech
343	Sandip Kumar Shaw	JDA	2 Yr. M.Tech
344	Vasudha	Infosys (PP)	2 Yr. M.Tech
345	Rahul Ranjan	WNS Global	2 Yr. M.Tech
346	Rakhi Verma	Capgemini	2 Yr. M.Tech
347	Prashant Rawat	Capgemini	2 Yr. M.Tech
348	Chidurala Shiva Charan	Nagarro	2 Yr. M.Tech
349	Ruchi Dewangan	Infosys (SES)	2 Yr. M.Tech
350	Shivam Katiyar	Infosys (SES)	2 Yr. M.Tech
351	Priyadarshan Kushwaha	Infosys (SES)	2 Yr. M.Tech
352	Kapil Dev Dwivedi	Dolcera	2 Yr. M.Tech
353	Abhinav Raj Singh	Amdocs	2 Yr. M.Tech

Academic Staff 2018-2019

Prof. P.Nagabhushan
Director

Prof. G. C. Nandi
Professor

Prof. O. P. Vyas
Professor

Prof. U. S. Tiwary
Professor

Prof. Anupam
Professor

Prof. Shekhar Verma
Professor

Prof. Tapobrata Lahiri
Professor

Prof. Shirshu Varma
Professor

Dr. Anurika Vaish
Associate Professor

Dr. Vijayshri Tewari
Associate Professor

Dr. Sanjai Singh
Associate Professor

Dr. Ranjit Singh
Associate Professor

Dr. Pavan Chakraborty
Associate Professor

Dr. Vrijendra Singh
Associate Professor

Dr. Neetesh Purohit
Associate Professor

Dr. Rajat Kumar Singh
Associate Professor

Dr. Pritish Kumar Varadwaj
Associate Professor

Dr. Ashutosh Mishra
Associate Professor

Dr. Madhvendra Mishra
Associate Professor

Dr. Vijay Kumar Chaurasiya
Associate Professor

Dr. Manish Kumar
Associate Professor

Dr. Manish Goswami
Associate Professor

Dr. Satish Kumar Singh
Associate Professor

Dr. Shailendra Kumar
Associate Professor

Dr. Sonali Agarwal
Associate Professor

Dr. Krishna Pratap Singh
Associate Professor

Dr. Pramod Kumar
Associate Professor

Dr. Akhilesh Tiwari
Associate Professor

Dr. S.Venkatesan
Associate Professor

Dr. Abhishek Vaish
Assistant Professor

Dr. Pragya Singh
Assistant Professor

Dr. Nidhi Mishra
Assistant Professor

Dr. Sitangshu Bhattacharya
Assistant Professor

Dr. Amit Prabhakar
Assistant Professor

Dr. Sangeeta Singh
Assistant Professor

Dr. Ratan Kumar Saha
Assistant Professor

Dr. Sintu Kumar Samantha
Assistant Professor

Dr. Triloki Pant
Assistant Professor

Dr. Ashutosh Singh
Assistant Professor

Dr. Saurabh Mishra
Assistant Professor

Dr. Shashi Kant Rai
Assistant Professor

Dr. Sanjeev B.S
Assistant Professor

Dr. Rahul Kala
Assistant Professor

Dr. Vineet Tiwari
Assistant Professor

Dr. Prasanna Kumar Misra
Assistant Professor

Dr. Abdulla Bin Abu Bakar
Assistant Professor

Dr. Srijit Bhattacharya
Assistant Professor

Dr. Sumit Kumar Upadhyay
Assistant Professor

Dr. Pooja Mishra
Assistant Professor

Dr. Suneel Yadav
Assistant Professor

Dr. Sunny
Assistant Professor

Dr. Utkarsh Goel
Assistant Professor

Dr. Amaresh Kumar Sahoo
Assistant Professor

Dr. Anand Kumar Tiwari
Assistant Professor (Contract)

Dr. Bibhash Ghosal
Assistant Professor (Contract)

Dr. Soumyadev Maity
Assistant Professor (Contract)

Dr. Rekha Verma
Assistant Professor (Contract)

Dr. Sudipta Das
Assistant Professor (Contract)

Dr. Jagpreet Singh
Assistant Professor (Contract)

Dr. Mohammed Javed
Assistant Professor (Contract)

Dr. Ranjana Vyas
Faculty

Dr. Seema Kushwaha
Assistant Professor (Contract)

Dr. Amar Nath Yadav
Assistant Professor (Contract)

Dr. Anshu S Anand
Assistant Professor (Contract)

Dr. Sudharsan Parthasarathy
Assistant Professor (Contract)

Dr. Savitri Joshi
Assistant Professor (Contract)

Non-Teaching Employees for 2018-2019

Dr. Asheesh Kumar
Joint Registrar

Dr. Seema Shah
Joint Registrar

Dr. Pavan Kr. Saini
Joint Registrar

Sh. O. P. Srivastava
Dy. Registrar

Mr. Rajendra Kr. Jena
Dy. Registrar (Library)

Sh. Pradeep Kr. Jain
Chief Executive Secretary

Sh. Mithilesh Kr. Mishra
Technical Officer (SS)

Sh. Kanchan Kr. Tiwari
Assistant Registrar

Sh. Ranjeet Banerjee
Assistant Registrar

Sh. Vivek Nagar
Assistant Registrar

Sh. Niranjan Kumar
Assistant Registrar

Sh. Jayant Biswas
Assistant Registrar

Sh. Ajay Kumar Tiwari
Technical Officer

Sh. Abhinaba Basu
Technical Officer

Dr. Kaushlesh Dwivedi
Medical Officer (On Contract)

Sh. Mukesh Rawat
Superintendent

Sh. Rajeev Kr. Bhatia
Superintendent

Sh. Prashant Kumar Srivastava
Technical Superintendent

Sh. Anil Bhaduria
Assistant Engineer

Sh. Gaj Raj Singh
Assistant Engineer

Sh. Akhilesh Kumar
Junior Engineer

Sh. Siva Kant Tripathi
Junior Engineer

Sh. Satya Prakash Sahu
Junior Engineer

Sh. Brijesh Kr. Pandey
Junior Superintendent

Sh. Rajendra Singh Bisht
Junior Superintendent

Sh. Sandeep Kumar Keserwani
Junior Superintendent

Mohd. Saleem Ansari
Junior Superintendent

Ms. Asha Shukla
Junior Superintendent

Sh. Sanjay Kumar
Junior Superintendent

Sh. Sunil Kashyap
Junior Superintendent

Sh. K. S. Aeron
Junior Superintendent

Ms. Ankita Jaiswal
Junior Superintendent

Ms. Jagriti Bajaj
Junior Superintendent

Ms. Archita Rai
Junior Superintendent

Sh. Neeraj Srivastava
Junior Superintendent

Sh. Kapil Srivastava
Junior Superintendent

Sh. Abhishek Pandey
Junior Superintendent

Sh. Sarvesh Kr. Mishra
Junior Superintendent (LIB)

Sh. Atul Tripathi
Junior Superintendent (LIB)

Sh. Yogesh Kardam
Junior Technical Superintendent

Sh. Durgesh Kumar
Junior Technical Superintendent

Sh. Santosh
Junior Technical Superintendent

Sh. Shailendra Singh
Junior Technical Superintendent

Sh. Kaushal Kr. Singh
Junior Technical Superintendent

Sh. Ashutosh Shukla
Junior Technical Superintendent

Sh. Rajit Ram Yadav
Junior Technical Superintendent

Sh. Himanshu Pandey
Junior Technical Superintendent

Sh. Sanjiv Kumar
Junior Technical Superintendent

Sh. Santosh Kr. Mishra
Junior Technical Superintendent

Sh. Pankaj Srivastava
Junior Technical Superintendent

Sh. Girish Kr. Dixit
Junior Technical Superintendent

Sh. Pramod Narayan Tripathi
Junior Technical Superintendent

Sh. Upendra Kashniyal
Junior Technical Superintendent

Sh. Gangadhara D.
Junior Technical Superintendent

Dr. (Mrs.) Pallavi Dixit
Junior Technical Superintendent

Mrs. Priya Pal
Staff Nurse

Mrs. Blessy Anie Shaiju
Staff Nurse

Sh. Vinod Narayan Tripathi
Pharmacist

Mohd. Izhar
Pharmacist

Sh. Santosh Kr. Yadav
Senior Technician

Mrs. Pratibha Verma
Senior Technician

Sh. Subhash
Senior Assistant

Sh. Pankaj Mishra
Senior Assistant

Sh. Sumit Kr. Shukla
Senior Assistant

Sh. D N Shukla
Senior Assistant

Sh. Manish Khare
Senior Assistant

Sh. Manoj Kumar Upadhyay
Senior Assistant

Sh. Deep Narayan Das
Senior Assistant

Sh. Abhishek Kumar
Junior Assistant

Mrs. Prabha Verma
Junior Assistant

Mrs. Ritu Srivastava
Junior Assistant

Sh. Raj Kumar Rawat
Driver

Sh. Satish Kumar
Driver

List of Medical Officers for 2018-2019

Dr. Rajendra Dayal
C.M.O.

Dr. Kaushlesh Diwedi
Medical Officer

Dr. Pritima
Medical Officer

Dr. Yashaswani Srivastava
Medical Officer

Dr. Ashok Kr. Singh
Medical Officer

Legal Counselor

Mr. Rohan Gupta
Legal Counsel, High Court , Prayagraj

Rakesh Pandey
Legal Counsel, District Court, Prayagraj



Indian Institute of Information Technology, Allahabad

(Established by Govt. of India under the Act of Parliament)

Devghat, Jhalwa, Prayagraj- 211 015 (U.P.), India

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