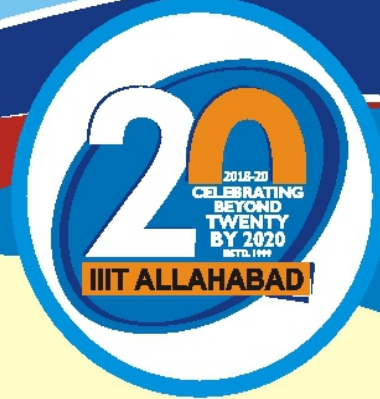
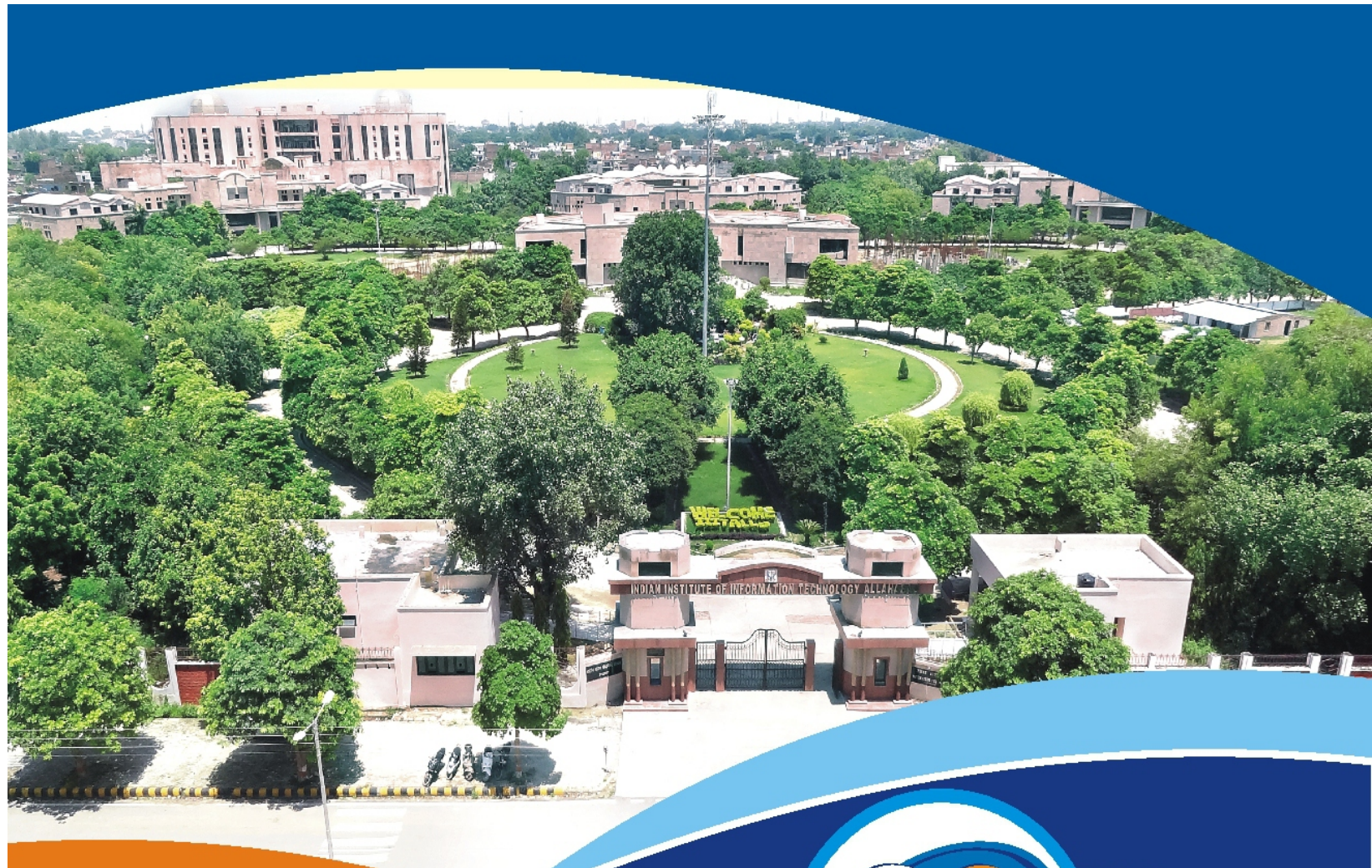




Annual Report 2019-20



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY ALLAHABAD

Annual Report

2019-20



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY ALLAHABAD



Swamy Vivekananda's thoughts on Education

"Education is not the amount of information that is put into your brain and runs riot there, undigested, all your life.

We must have life-building, man-making, character-making assimilation of ideas.

If you have assimilated five ideas and made them your life and character, you have more education than any man who has got by heart a whole library."



Patron : Prof. P. Nagabhushan
Director, IIIT Allahabad

Advisory Board : Prof. Shirshu Varma, Registrar

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

Prof. Tapobrata Lahiri, Dean (Academic & Research)

Prof. Shekhar Verma, Dean
(Infrastructure, Planning & Resources Management)

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

&

Mr. Sarvesh Kumar Mishra, Jr. Superintendent (Library)

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CONTENTS

1. Introduction

1.1 Chairman and Director's Profile	7
1.2 Director's Report	8
1.3 Charter & Mission	11
1.4 Governance	12

2. Administration

2.1 Academic Departments	15
2.2 Deans/HoDs	15
2.3 Council of Wardens	15
2.4 Proctorial Board	15
2.5 Special Functionaries	16
2.6 Officers	16

3. Academics

3.1 Academic Programmes and Intake of the year	17
--	----

4. Faculty Update

19

5. Brief Summary of the Departments (Activities during the Year 2019-20)

5.1 Department of Information Technology	117
5.2 Department of Electronics and Communication Engineering	119
5.3 Department of Applied Sciences	121
5.4 Department of Management Studies	132

6. Research and Projects

6.1 Projects of the Institute	135
6.2 MoUs	137



7. Infrastructure

7.1 Infrastructural Facilities	139
7.2 Labs and Research Facilities	144
7.3 Library Facilities	150

8. Scholarship/Felloship/Assistantship

8.1 Scholarship/Felloship/Assistantship	153
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9. The Statistics

9.1 Financial Statistics	156
9.2 Examination Results	160
9.3 Medals & Awards	162
9.4 Placement	165
9.5 Events of the Year	173

10. Preventive and Redressal Measures by the Institute

10.1 Grievance and Redressal Measures	178
10.2 Prevention of Harassment of Women at Workplace	178
10.3 Prevention of Ragging in the Institute	179
10.4 Prohibitions and Bans	180

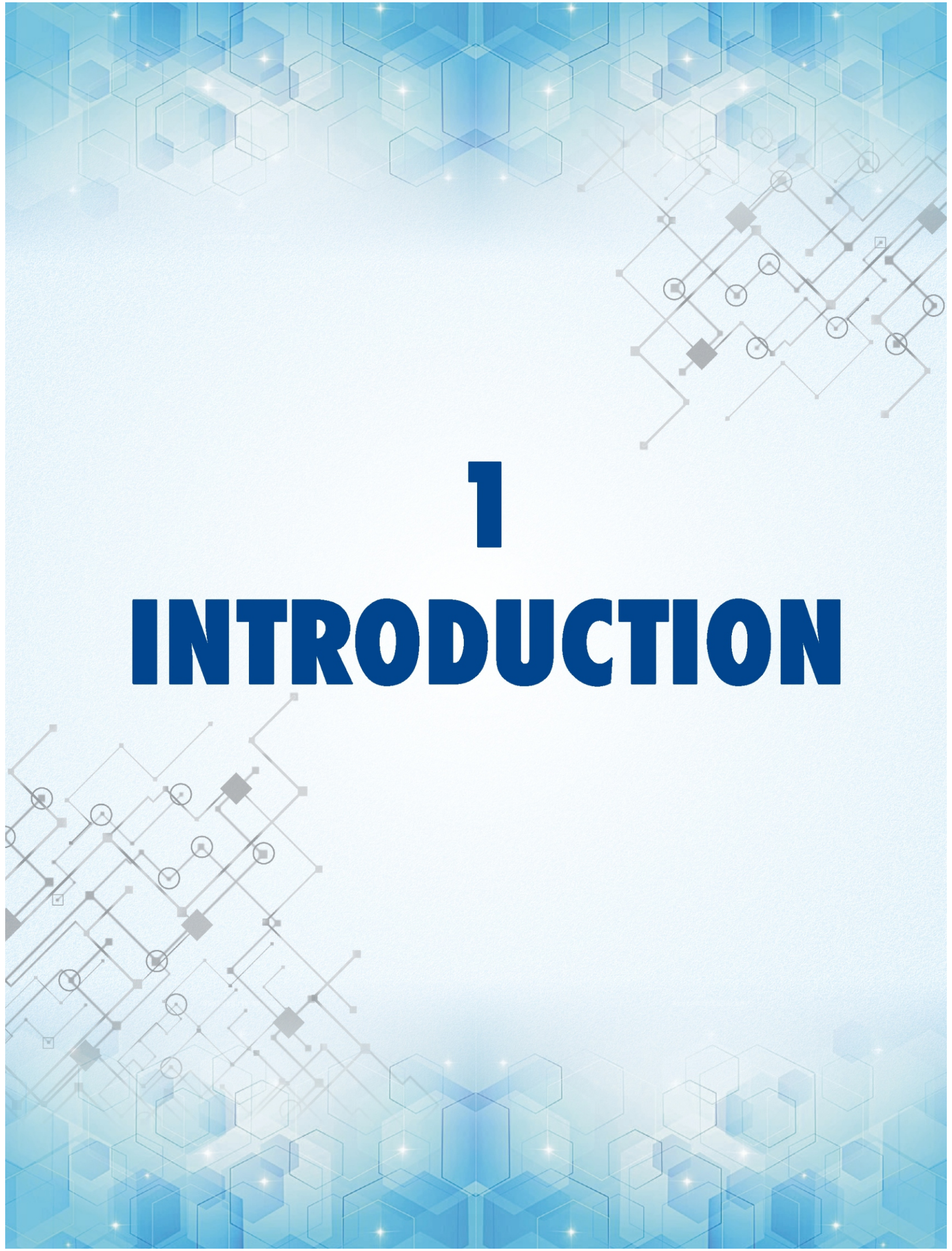
11. Students' Gymkhana

11.1 Presidential Council	182
11.2 Activities of Gymkhana	182

12. Employees of the Institute

12.1 Academic Staff	189
12.2 Non-Teaching Staff	191
12.3 Medical Officers	193
12.4 Legal Counsellors	193





1

INTRODUCTION

1.1 THE CHAIRMAN AND DIRECTOR'S PROFILE



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 Fellow of Institution of Electronics and Telecommunication Engineering (FIETE) and Fellow of Institution of Engineers (FIE). He is a Fellow of International Academy of Physical Sciences (FIAPS). 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-06 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, Some of the journal papers were listed as the top papers of the respective years, Sponsored Project by ISRO on Dimensionality Reduction was regarded as the top project of the year, Highly Performing Alumina – Felicitation by Mahajana Educational Society's Mahajana Junior College, Mysore, National Merit Scholar throughout +2, graduate and post-graduate studies, Education Excellence Award by DainikJagran, November, 2019

On academic front, he has successfully guided 31 PhDs (5 more are ongoing), and has authored 537+ research papers (30% Journals, 30% International Conference Proceedings), about 100 papers are highly acclaimed DBLP indexed. The citation index of 2543 with H-index of 25 and i10 index of 74 reflects his academic accomplishments.

1.2 Director's Report 2019-20



Respected distinguished Chief Guest Dr. K. Sivan, the Chairman of Indian Space Research Organisation and the Secretary of Department of Space, Govt. of India, Honourable Members of the Board of Governors and Senate, Faculty, Officers, Staff, Parents, Invitees, Media friends and the Outgoing Graduands.

Greetings of the Day and Good morning to all of you.

The Second Saturday of September is the day of the Convocation, and on this day of 12th September this year, adhering to the convention the outgoing successful students are formally admitted into graduation. This is the fifteenth Convocation of the Institute.

Had there been not the acuteness caused by ongoing pandemic situation, the day would have witnessed the colorful presence of parents and graduands in the campus and there would have been an atmosphere of festival. However, though the day sans glamour, the shine still glitters.

I, as Director, am proud of our students, faculty, officers and staff who stood firm to get all academic activities continued and successfully completed as per the calendar, in spite of pandemic calamity compelling the isolation. This was also because of the new Ordinance introduced which contained many new directions, which are now stated in the New Education Policy by the Govt. of India. That is how the outgoing batch has been able to graduate in time, while we are aware that in many places the exercise of academic completion is still going on. Now I, also as Acting Chairman of Board of Governors of the Institute, express my happiness with the efforts of IIIT Allahabad.

The sacred formality of admitting the successful candidates to graduation should happen. The formal award is very much the need, which would enable the confirmation of your admission to higher studies and also confirmation of your jobs. Aligning with the gloomy scenario in rest of India and in the world, the touch of high ended celebration is not happening, and the event gets documented as the first E-Convocation. Once the pandemic comes under control, we wish to have all of you in the campus for the replay of 'Receiving the document' on the stage in the presence of your parents. That would also mark the first alumni meet of yours, exclusively for the recently graduated batch.

All of us have gone through the worthy resume of the Chief Guest, which is highly inspiring for all our outgoing candidates. Originating from a small village in the southern tip of India-Kanyakumari, and starting the education in Tamil medium, today Dr. Sivan stands very uniquely in the Space of not only India, also of the Universe. Dr. Sivan's spirit of positivity inducts a great motivation to all our young graduands, who are ready on the runway to take off. The inspiration and motivation would fuel them to accomplish the best heights in their flights.

Dr. Sivan is not only determined to put India in international space, he is also pioneering to enhance the Gross Qualification Index-(GQI) of ISRO. You may recall that ISRO, with the steering by Dr. Venkatikrishna, Director and Dr. Jayaprakash Thomas, Associate Director, Capacity Building Programme Office of ISRO together with the patronage rendered by Padama Shri Dr. Kiran Kumar, former Chairman of ISRO, has signed a historic MoU with IIIT Allahabad to make the expertise and infrastructure created at all different ISRO units, available for all ISRO Scientists and Engineers enabling them to register for their higher studies leading to the qualifications of M.Tech., Ph.D., while still continuing to work on their own problems at ISRO and in the same venues of ISRO. Thus the state of the art facilities in ISRO would virtually become the extended research wings of IIIT Allahabad and IIIT Allahabad would get the advantage of rubbing the shoulders with the state of art issues in Computing related to Space problems.



This pioneering effort by Dr. Sivan should strongly motivate our young graduates also to plan for their higher qualification at the earliest in their career.

Today 214 graduands will be the recipients of B.Tech. degree. Dual Degree B.Tech.-M.Tech./MBA will be received by 58 candidates. The number of candidates who will be admitted to the portal of M.Tech. graduation is 105, while MBA graduation is 16. The Ph.D. award will be received by 10 candidates. Out of all outgoing graduates 77 are ladies. Overall, total number of medal awardees is 23 and amongst them 11 are ladies.

Congratulations to all of them. IIIT Allahabad feels very proud and henceforth they would be our brand ambassadors, as well our worthy alumni. In their success we are elated, and they should count upon us as their family members specifically when they need to share their low feelings and pains. IIIT Allahabad assures to stand by them always.

Related to the outgoing candidates, there is some more rejoicing statistics. Of 196 students who had opted for campus placement support, almost all have got placed, 191 were already placed. 83 companies had visited the campus. Average salary package for IT graduates happens to be Rs. 22.5 lakh per annum. The highest offer happens to be Rs. 43 lakh for IT and Rs. 32 lakh for ECE. Out of 49 candidates from Dual degree, 44 were placed and 75 out of 96 from M.Tech. were already placed. These numbers are very pleasant numbers to be proud of.

Further, our illustrious faculty and committed students have brought plenty of professional and academic laurels to the Institute. In the QS world ranking, in the subject discipline of Computer Science, IIIT Allahabad is in the bracket of 500-550 at the global level, which also puts us at 17th place in India. In the QS India ranking, IIIT Allahabad stands at 40th position overall. In India's national ranking NIRF, IIIT Allahabad is ranked 103 out of 200 positions notified. No doubt we have to push this to a 2 digit rank position and then we have to aim to be in top 25 ranks. However it should still be appreciated that we are in top 3-4% considering the total number of Technological Institutions in the country. As per the ranking by India Today we stand at position 9 amongst Govt. Technological Institutions and at position 10 overall. Education World India ranks us at 23rd position out of 150 Govt. Universities.

These rank numbers just indicate that we are very much competent and competitive in the field. However the real accreditation of the institution results when our alumni perform very well and become the cause of upliftment of the society. We always cherish such an accreditation.

One such moment of pride, during this year was because of your Super Senior of 2002's batch, Dr Samir Menon who holds a Ph.D from Stanford and is CEO of Dexterity Inc. He because of his startup company in the field of Robotics could make a fortune of some 56.2 million US\$. More important in this achievement is that he owes his success to the Institute and to the Robotics lab set up in the Institute. We hope many more of our graduates are triggered.

The success is not a destination. It is the journey. The success is because of commitment and hard work. I was fascinated when I read what was written by Padma Vibhushan & Raman Magsaysay Awardee, the milk man of India, who was responsible for white revolution in India-Dr. Verghese Kurien. In his letter to his grandson he has penned:

"I would like to stress even more strongly that my contributions have been possible only because I have consistently adhered to certain core values. Values that I inherited from my parents and other family elders, values that I saw in my mentor and supporter. ...

I have often spoken of integrity as the most important of these values, realizing that integrity-and personal



integrity, at that-is being honest to yourself. If you are always honest to yourself, it does not take much effort in always being honest with others”.

Dr. Kurien's view towards 'Life' is very noble. One should read from what he has written.

“Life is a privilege and to waste it would be wrong. In living this privilege called 'Life', you must accept responsibility for yourself, always use your talents to the best of your ability and contribute somehow to the common good. That common good will present itself to you in many forms everyday. ...

I hope that you, too, will discover, as I did, that failure is not about not succeeding. Rather, it is about not putting in your best effort and not contributing, ...

In life, anything can go wrong at any time and mostly does. Yet,that will help us understand and cherish what we have, rather than what we don't have”.

To lead such a 'life' we need to possess a strong will power. We need to develop the 'state of happiness at work' as preached by Honourable Dalai Lama. For this to happen we pray for the internal strength. Therefore, at this juncture, I like to reproduce from Gitanjali of the Nobel Laureate Dr. Rabindranath Tagore, the prayer for the internal strength.

*“This is my prayer to thee, my lord—strike, strike at the root of penury in my heart.
Give me the strength lightly to bear my joys and sorrows.
Give me the strength to make my love fruitful in service.
Give me the strength never to disown the poor or bend my knees before insolent might.
Give me the strength to raise my mind high above daily trifles.
And give me the strength to surrender my strength to thy will with love”.*

On this day of graduation, all our young graduates, the hopes and promises of future, will also pray for acquiring that internal strength.

Before I conclude, I like to share what I recently read-

It goes as below-

I asked a wise man,

“Tell me Sir,

in which field could I make greater career”?

He said with a smile,

“Be a good human being.

There is a lot of opportunity in this area and very little competition”

We are confident that our outgoing candidates will be great human beings.

Wish you all the best and

Thank you,

P. Nagabhushan
Director, IIT Allahabad
Prayagraj

1.3 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 Governance

GOVERNING BODIES OF THE INSTITUTE

The Governing Bodies of the Institute comprise of the following:

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

IIIT Act, 2014

With effect from 5th January, 2015, IIIT Act, 2014 has been come into force. The provisions of the said Act are being implemented.

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 present BoG:

Chairman

Prof. P. Nagabhushan

Director, IIIT Allahabad

Members

Sh. Rakesh Ranjan

AS (TE) & CVO, (IITs, IIITs, TE, TC, TEQUIP
Unnat Bharat Abhiyan), MHRD, 107-C, Shashtri
Bhawan, New Delhi – 110115

Dr. Jaideep Kumar Mishra

Joint Secretary & Group Coordinator (HRD)
Ministry of Electronics & Information
Technology (MeitY), Room No. 4015,
Electronics Niketan, 6, CGO Complex, New
Delhi – 110003

Prof. Abhay Karandikar

Director, IIT Kanpur

Prof. Archana Shukla

Director, Indian Institute of Management Lucknow

Prof. Manindra Agrawal

Department of Computer Science Engineering
IIT Kanpur

Prof. Arvind Choubey

Director, IIIT Bhagalpur, Bihar

Prof. Anand Bulusu

Department of Electronics & Computer
Engineering, IIT Roorkee

Additional Chief Secretary

Dept. of IT & Electronics, Govt. of U.P., Lucknow

Prof. Shekhar Verma

Dean (IP&RM), IIIT Allahabad

Prof. U.S. Tiwary

Dean (Human Affairs), IIIT Allahabad

Prof. Shirshu Varma

Secretary, BoG
Registrar (Acting), IIIT Allahabad

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.

Senate (As per IIITs Act, 2014)

Director of the Institute, Ex-officio	16 (1) (a)	Prof. P. Nagabhushan Chairman, Senate Director, IIIT Allahabad
Deans, Ex-officio	16 (1) (c)	1. Prof. U.S. Tiwary, Dean (Human Affairs) 2. Prof. Anupam, Dean (TPA) 3. Prof. Shekhar Verma, Dean (IP&RM) 4. Prof. Tapobrata Lahiri, Dean (A & R)
Heads of the Dept. of the Institute	16 (1) (d)	1. Dr. Pritish Varadwaj HoD (Applied Sciences) 2. Dr. Rajat Kumar Singh HoD (Electronics & Communication Engineering) 3. Dr. Vrijendra Singh HoD (Information Technology) 4. Dr. Vijaiyshi Tiwari HoD (Management Studies)
All Prof. other than the Deans or HoDs	16 (1) (e)	1. Prof. G.C. Nandi, Professor 2. Prof. O.P. Vyas, Professor 3. Prof. Shirshu Varma, Professor
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 2. Prof. Shekhar Majumdar, Professor, NITTE Meenakshi Institute of Technology, Bangalore 3. Prof. A.G. Ramakrishna Professor, Dept. of Electricals, IISc., Bangalore
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 2. Dr. Sumit Ganguli, Dept. of Computer Science & Engineering, IIT Kanpur 3. Prof. Chidananda Gowda, Ex. Vice Chancellor, Kuvempu University
Registrar of the Institute, Ex-officio	16 (1) (h)	Prof. Shirshu Varma Secretary, Senate Registrar (Acting)



Finance Committee

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.

Prof. P. Nagabhushan

Director, IIIT Allahabad



Members

Shri Prashant Agarwal

Director (IITs/IIITs), MHRD, New Delhi

Shri Anil Kumar

Director (Finance), MHRD, New Delhi

Dr. CA Phalguna Kumar

Chartered Accountant

Managing Partner – M/s E. Phalguna Kumar
& Co. Tirupati, Andhra Pradesh

Shri Munish Malik

Chief Executive Officer

NPS Trust, New Delhi

Prof. Shirshu Varma

Secretary Finance Committee

Registrar, IIIT Allahabad

Building & Works Committee

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.

Prof. P. Nagabhushan

Director, IIIT Allahabad



Members

Prof. Shekhar Verma

Dean (IP&RM), IIIT Allahabad

Shri Anil Kumar Sharma

Chief Engineer, CPWD, Lucknow

Shri Rajiv Garg

Superintending Engineer, IIT Kanpur

Shri Rajeew Kumar Singh

Superintending Engineer, Distribution,
UPPCL, Allahabad

Shri O.P. Srivastava

Member Secretary, Joint Registrar (PME&E),
IIIT Allahabad

2. 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. G.C. Nandi, Advisor: Quality, Assessment and Assurance
- Prof. U.S. Tiwary, Dean (Human Affairs)
- Prof. Tapobrata Lahiri, Dean (Academic & Research)
- Prof. Anupam, Dean (ERP, Automation, Promoting Consultancy, Alumni Activities & Other Academic related promotions)
- Prof. Shekhar Verma, Dean (Infrastructure, Planning & Resources Management)
- Prof. Shirshu Verma, Advisory Coordinator (Students' Placement and Training)
- Dr. Pavan Chakraborty, Associate Dean (Research Development and Ph.D.)
- Dr. Vijay K Chaurasiya, Associate Dean (Students' Affairs)
- Dr. Manish Goswami, Associate Dean (Admission, Assessment & Award)
- Dr. Vijaishri Tewari, Associate Dean (International Relations) and Student Counselor

2.3 Council of Wardens

- Dr. Manish Kumar, Chairman: Council of Warden, Estate Officer, RSA-1 & 2
- Dr. Sitangshu Bhattacharya, (Warden Boys Hostel-1)
- Dr. Anand Kumar Tiwari, (Warden Boys Hostel-2)
- Dr. Sintu Kumar Samanta, (Warden Boys Hostel-3)
- Dr. Ranjit Singh, (Warden Boys Hostel-4)
- Dr. Sunny Sharma & Dr. Amresh Kumar Sahoo (Warden Boys Hostel-5)
- Dr. Sangeeta Singh, (Warden Girls Hostel-1)
- Dr. Pooja Mishra, (Girls Hostel-2)
- Dr. Sangeeta Singh & Dr. Pooja Mishra, (Warden Girls Hostel-3)

2.4 Proctorial Board

- Dr. K. P. Singh, Chief Proctor
- Dr. Rekha Verma, Asstt. Proctor



2.5 Special Functionaries

- Prof. Anupam, Chairman Purchase 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. Sanjai Singh, 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
- Registrar (Acting), Chairman: Health Centre Advisory Committee

2.6 Officers

- Prof. Shirshu Varma, Registrar (Acting)
- Dr. Asheesh Kumaar, Joint Registrar (AAA)
- Dr. Seema Shah, Joint Registrar (Store & Purchase), Estate Officer
- Dr. Pavan Kumar Saini, Joint Registrar (Estt.)
- Mr. O.P. Srivastava, Joint Registrar (PMEE)
- Mr. Rajendra Kumar Jena, Dy. Registrar (Library)
- Dr. Mithilesh Kumar Mishra, Technical Officer (SS)
- Dr. K.K. Tiwari, Assistant Registrar (SA)
- Mr. Ranjeet Banerjee, Assistant Registrar (Purchase)
- Mr. Niranjana Kumar, Assistant Registrar (AAA)
- Mr. Vivek Nagar, Assistant Registrar (Finance & Accounts)
- Mr. Ajay Kumar Tiwari, Technical Officer
- Mr. Abhinaba Basu, Technical Officer

3. Academics

3.1 Academic Programme and Intake of the Students

S. No.	Name of Programme	2019	Total Admission including DASA
		Approved Intake (Including DASA/NRI/SN/SAARC)	
1	B. Tech.(IT)	233+5*	233+5*
2	B. Tech.(ECE)	116+5*	112+2*
3	B. Tech.(IT-Business Informatics)	39	39
4	M. Tech.- BI	M.Tech. BI Approved Intake: 18	7
	M. Tech.- BI Integrated PhD		
	M. Tech. - IS	M.Tech. IT Approved Intake: 113	102
	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.- WCE Integrated PhD		
	M. Tech.- CLIS		
	M. Tech.- CLIS Integrated PhD		
5	M. Tech.- MI	M.Tech (ECE) Approved Intake: 27	24
	M. Tech.- MI Integrated PhD		
6	MBA (IT)/MBA	76	32
	MBA (IT) Integrated PhD	NA	NA
7	5 Years Integrated M. Tech.(Biomedical Engineering)	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/SAARC Category.



4

Faculty Update



Prof. G. C. Nandi

Department : Information Technology

Designation : Senior most Professor (HAG)

Experience (in years):

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

Research papers published in journals:

- 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: 4.664, International Journal of Neural Computing and Applications Research

Papers published in conference proceedings (as a full paper):

- Generic Walking Trajectory Generation of Biped using Sinusoidal Function and Cubic Spline with my students Gaurav Yadav and Shruti Jaiswal, 7th IEEE International conference on Signal Processing and Integrated Networks (SPIN 2020)
- Cartesian To Joint Space Mapping Using Q-Learning, with my students Tanuj Pal Singh and PriyaShukla 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON), Aligarh, India, 2019, (Received Best Paper award in the Robotics Track). Published in IEEE Xplore.
- Robotized Grasp: Grasp manipulation using Evolutionary Computing, with my student PriyaShukla, 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON), Aligarh, India, 2019, published in IEEE Xplore.
- Fusing Multimodal Human-Robot Communication using Deep Learning, with my students Priya Shukla, Bhanu Bhandari, Aditya Goel, Ravi Charan, Niharika Gali, Agam Dwivedi, Nikhil Mundra, Ruchin Agrawal 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON), Aligarh, India, 2019, pp. 1-6, published in IEEE Xplore.
- Robotic Grasp Detection by Learning Representation in a Vector Quantized Manifold, with my students Priya Shukla, Mridul Mahajan, Tryambak Bhattacharjee, Arya Krishnan, WiCV IEEE CVPR 2020 (accepted as poster presentation), June 16-18, 2020, Seattle, USA.
- Robotic Grasp Detection By Learning Representation in a Vector Quantized Manifold , with my students Mridul Mahajan, Tryambak Bhattacharjee, Arya Krishnan and Priya Shukla SPCOM 2020, IISc, Bangalore, published in the IEEE Xplore.

Seminars and invited talks presented:

- Key note speaker on International Conferences on Artificial Intelligence, Barcelona May 7th, 2019.
- 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.
- Delivered a key note lecture on May 8, 2019 at Madrid, Spain on "Robotics in the Era of Machine Learning" during International Conference on Artificial Intelligence
- 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 on 8th, 2019 at Madrid, Spain.

- Attended renowned International Conference, CVPR- 2019, June 16-19, 2019, Long Beach, CA, USA.
- Delivered an expert lecture on December 14, 2019 on Uncertainty handling using Bayes' theorem and Dempster-Shafer theorem, in the Faculty development program on "Artificial Intelligence" organized by MNNIT Allahabad, INDIA during December 10-14, 2019.
- Delivered an invited technical talk on "Robotics Research in the Machine Learning and Deep Learning Paradigm" organized by the Computer Science and Engineering Department of NIT, Hamirpur in association with the IEEE Computer Society - Delhi Chapter (INDIA) on 17th December, 2019.
- Delivered two expert lectures on Machine Learning in the Faculty Development Program on "Recent Trends in AI and Mobile Systems (RTAIMS-2019)", organized by the Computer Science and Engineering Department of NIT Hamirpur (HP), INDIA during 16-21 December, 2019.
- Delivered a Keynote Lecture on "Robotics and Machine Intelligence" during Two Days Workshop on Robotics and Machine Intelligence held at Indian Institute of Information Technology Allahabad, INDIA during 2-3 January, 2020 jointly sponsored by the Center of Intelligent Robotics, IITA and IEEE-RAS UP Section Chapter.
- Delivered a Plenary Talk on "Solving Intelligent Robot Grasping Problem in the Deep Learning Paradigm" at ICEECS-2020, organized during January 10-11, 2020 at VBS Purvanchal University, Jaunpur, UP, INDIA.
- 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.

Conferences attended outside IIIT Allahabad:

- Attended renowned International Conference, CVPR- 2019, June 16-19, 2019, Long Beach, CA, USA.
- 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 Aditya Singh.
- Development of human Imitation Learning Technology using Non-dominated Sorting Genetic Algorithm and Deep Generative Networks with Padmakar Pandey.
- Biped Locomotion Control for humanoid robots using Deep Reinforcement Learning with Gaurav Kumar Yadav.
- Developing Robot for vision using Deep Generative Models with Vandana Kushwaha

Training Programmes organized:

- Organized two days workshop on "Robotics and Machine Intelligence" at Indian Institute of Information Technology Allahabad, INDIA during 2-3 January, 2020 jointly sponsored by the Center of Intelligent Robotics, IITA and IEEE-RAS UP Section Chapter.

Other Activities:

- Developed the Center of Intelligent Robotics in the institute which got Senate approval (16th meeting).



[Above, with Prof. Domenec Puig of URV, Spain, during the inauguration of Center of Intelligent Robotics]



[Above, participated as a distinguished panelist in the Artificial Intelligence, International conference, Barcelona- Madrid, May 7-8, 2019, Spain]



[Above, addressing the participants of the workshop on Robotics and Machine Learning during January 2-3, 2020]



Prof. Uma Shanker Tiwary

Department : Information Technology
Designation : Professor & Dean (Human Affairs)

Experience (in years):

Teaching/Research: 30 years Industry : 20 years

New courses developed:

- Information Retrieval
- Computer Vision
- Cognition and Cognitive Process Modelling
- Cognitive Systems

Books and book-chapters published:

S. No	Author(s)	Book Title	Publisher	Year	Place
1	Tiwary, U. S.	Proceeding of the Seventh International Conference on Intelligent Human Computer Interaction(IHCI 2015)	Procedia Computer Science	2015	IIITA
2	Tiwary, U. S. and Siddiqui, Tanveer	Speech, Image, and Language Processing for Human Computer Interaction: Multi-Modal Advancements	IGI	2012	
3	Tiwary, U.S., Siddiqui, Tanveer, Radhakrishna, M. and Tiwari, M.D.	Proceedings of the Second International Conference on Intelligent Human Computer Interaction	Springer	2010	IIITA
4	Tiwary, U.S., Siddiqui, Tanveer, Radhakrishna, M and Tiwari, M.D.	Proceedings of the First International Conference on Intelligent Human Computer Interaction	Springer	2009	IIITA
5	Tiwary, U.S., Radhakrishna, M.	Proceedings of the Third International Conference on Wireless Communication and Sensor Networks	IEEE	2008	IIITA
6	Siddiqui, Tanveer and Tiwary, U. S.	Natural Language Processing and Information Retrieval	Oxford University Press	2007	
7	Tiwary, U.S., Radhakrishna, M and Tiwari, M.D.	Proceedings of the Third International Conference on Wireless Communication and Sensor Networks	IEEE	2007	IIITA
8	Tiwary, U.S., Radhakrishna, M. Nandi, G.C. and Tiwari, M.D.	Proceedings of the Second International Conference on Wireless Communication and Sensor Networks	Macmillan Advanced Research Series	2006	IIITA



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

S. No.	Author(s)	Article Title	Conference Title	Date-Month-Year	Page
1	Mishra, R., Barnwal, S. K., Malviya, S., Singh, V., Singh, P., Singh, S., & Tiwary, U. S.	Computing with Words Through Interval Type-2 Fuzzy Sets for Decision Making Environment	IHCI-2019	12 April 2020	112-123
2	Singh, S., Malviya, S., Mishra, R., Barnwal, S. K., & Tiwary, U. S.	RNN Based Language Generation Models for a Hindi Dialogue System	IHCI-2019	12 April 2020	124-137
3.	Mishra, R., Barnwal, S. K., Malviya, S., Mishra, P., & Tiwary, U. S.	Prosodic feature selection of personality traits for job interview performance	ISDA 2018	12 April 2019	673-682

Seminars and invited talks presented:

- Title: "Computing With Words: Type-2 Fuzzy Sets"
Organization: IHCI-2019
Date: 12-Dec-2019

Training programmes organized:

- Winter Research Internship Program (WRIP 2019)
- Summer Research Internship Program (SRIP 2020)

Other Activities:

(a) Technology Developed

- Dialogue System (Ongoing), EEG (Ongoing)

(b) Patents

- An Assessment System for Developing Tracking Reporting an Individual's Learning Proficiencies (Under Process)

(c) Awards and Honors

- Professor, IIIT Allahabad
- Dean (Human Affairs), IIIT Allahabad
- Head of SILP Lab, IIIT Allahabad
- Head of Center for Cognitive Computing, IIIT Allahabad

(d) Continuing Education Activities

Sl.	Course
1	Information Retrieval
2	Cognitive Systems
3	Computer Vision
4	Cognition and Cognitive Process Modelling



Prof. Om Prakash Vyas

Department : Information Technology

Designation : Professor

Experience (in years):

Teaching/Research: 32 years

International MoUs/Projects:

- International MoU was signed and got operational with Bielefeld University (Germany) towards academic cooperation with mobility scheme.
- International Project proposal with Indo-Norway Collaboration under Governmental support of both the DST (Govt. of India) and Research Council of Norway (Norway) got operational with Prof. O. P. Vyas being Coordinator of the Project.

New courses developed:

- The new academic program B.Tech. IT-Business Informatics was formally inaugurated with French Embassy Counselor Dr. Bertand De Hartingh on 5th February 2020 (IIIT Allahabad).
- A new course Business Process Modeling was developed and implemented as mandatory Course for B.Tech. IT - Business Informatics ([January 2020 Semester](#)) program.

Books and book-chapters published:

Sl. No.	Author(s)	Title of the Book/Chapter	Publisher	Year	Page
1	Ayush Sinha, R. Vyas, Venkatesan S, O. P. Vyas	Critical Infrastructure Security: Cyber Physical Attack Prevention, Detection, and Countermeasures	IGI Global	2020	134-162
2	Monika Rani, A. Kumar, D Maurya, S Mishra S Sonker, U Saxena and O. P. Vyas	Ontology-based Bitmasking Approach for Smart e-tourism System	Springer Book on Pervasive Computing: A Networking Perspective and Future Directions	2019	111-126

Research papers published in journals:

S. No.	Author(s)	Title of the Article	Journal	Volume (No)	Year	Page
1	A Khare, Giovanni Merlino, F. Longo, A. Puliafito, OP Vyas	Design of a Trustless Smart City system: The #SmartME experiment	Elsevier Journal on Internet of Things (10: 100126)	Volume (10)	2020	01-16
2.	R. Mahule, R. Vyas, O P Vyas	Towards Knowledge Discovery in interlinked heterogeneous datasets of LOD cloud	Romanian Journal of Information Science and Technology.	Vol. 23 (1)	2019	55-68

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

S. No.	Author(s)	Title of the Article	Conference Title	Paper No	Date-Month-Year	Page
1.	Ashish Singh Patel, OP Vyas, Muneendra Ojha	Vehicle Tracking and Monitoring in Surveillance Video	IEEE Conference on Information and Communication Technology	2019 (1)	06/12/2019	1-6

Seminars and invited talks presented:

- Invited by Germany's Bielefeld University to participate in Colloquium and to deliver Invited Talk on "Decision Science & Business Intelligence" (Bielefeld University-Germany June 2019).
- The new academic program B.Tech. IT- Business Informatics was formally inaugurated with French Embassy Counselor Dr. Bertarnd De Hartingh in February 2020 (IIIT Allahabad).

Work done in project undertaken in the Institute:

- Worked as Program Coordinator for new B.Tech. course in Business Informatics while coordinating with colleagues from and outside IIITA for structuring new program since July 2018. First batch of the students of new program admitted in July 2019.

Other Activities:

(a) Visited industry & other Institutes for research

- University of Bielefeld (Germany) during June 2019 as Visiting Professor.

Any other important activity not specified above:

- The B.Tech. IT-Business Informatics program was formally inaugurated by the French Embassy official Dr. Bertrand De Hartingh (Head of the services for Science, Education & Culture, Country Director- French Institute in India) on 5th February, 2020.



- Invited to participate in 2nd Indo-French Knowledge Summit organized at Lyon to facilitate Academic cooperation between Indian Institutes / Universities with French Institutes / Universities and Industry.



- A MoU was signed between IIITA and NTNU-Gjovik, Norway (Norway University of Science & Technology) and got operational for academic cooperation and mobility. Prof. Sokratis Katsikas of NTNU Norway visited IIITA.



Prof. Tapobrata Lahiri

Department : Applied Science

Designation : Professor and Dean (Academics and Research)

Experience (in years):

Teaching/Research: 30 years (17+ years at IIITA)

New courses developed:

Member of the team to develop new program, M.Tech. in Data Sciences and Analytics and the courses therein.

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	DoI	Year
1	G Kumar, R Kumar, MK Pal, N Pramanik, T Lahiri (corresponding author), A Gupta, S Pandey	"APT: An Automated Probe Tracker from gene expression data	IEEE/ACM Transactions on Computational Biology and Bioinformatics	10.1109/TCBB.2019.2958345.	2019

Average Impact Factor: 3.015

(<https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=8857>)

Seminars and invited talks presented:

- Title: Fundamental Concepts of Machine Learning (Keynote lecture)
Organization: Workshop on Machine Learning and Data Analytics (MLDA-2019) at IIIT Allahabad
Date: May 25, 2019
- Title: Machine learning fundamentals – a cognition based overview
Organization: CDAC, Kolkata, WB, India
Date: October 18, 2019

Work done in project undertaken in the Institute:

- Ph.D. thesis work in the field of Protein Structure Prediction with the support of completed ICMR-funded project.

Other Activities:

(a) Technology Developed

- A new sequence derived structural information based protocol for measuring structural similarity between two proteins.
- A novel gene finding protocol for in-silico selection of gene-probes responsible for pathological manifestation of a disease process.

(b) Software Developed

- ProtPCV: This is basically a new function written in MATLAB programming language that takes two protein sequences (i.e., two strings in FASTA format) as input and gives a similarity score on the basis of their sequence derived ordered physicochemical properties and structural information.
- APT: This is also a new function written in Python programming language, that takes a set of probe-arrays of gene expression data for both “patients for a particular disease” and “healthy controls” as input. The input is then processed through calculation of Fisher's Discriminant Ratio through which a value of statistical significance level is predicted using a non-linear regression function. The predicted significance level is further utilized as cut-off for outputting the concerned probes.

Any other important activity not specified above.

- As the Dean (Academics and Research) formalized the Ph.D. admission module.
- As the Chairman (Library Committee) formalized the bulk purchase process for Library procurements.
- As the Dean (Academics and Research) served as one of the proponent for furtherance of non-stop academic activities including online teaching, assessment, publication of result and E-Convocation.
- As the Dean (Academics and Research) contributed in the development and academic framing of M.Tech. program in Data Science and Analytics.



Dr. Shirshu Varma

Department : Information Technology

Designation : Professor

Experience (in years):

Teaching/Research: 27 years

Books and book-chapters published:

- 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.
- 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

- Shirshu Varma et. al., "Optimal placement of UAVs forming Aerial Mesh Networks to handle network issues" Ad Hoc & Sensor Wireless Networks,, (2020). (SCI JOURNAL)
- Shirshu Varma et. al., "Evolution of Middleware for Wireless Sensor Networks & Internet of Things: A Perspective View" Wireless Personal Communication, Springer, (2020). (SCI JOURNAL)

Publications in Conferences

- Shirshu Varma et. al., "Internet of Things for Military Applications" In 2020 7th International Conference on Computing for Sustainable Global Development (INDIACom), March 2020.

Seminars/Conference and invited talks presented:

- Participated in "Recent Trends in IoTs and Cloud Computing (RT-IoTCC)" at Sardar Vallabhbhai National Institute of Technology, Surat, India, Feb, 2020.
- Participated in "Big Data Analytics, Artificial Intelligence, BlockChain Technology and IOT" for Oil and Natural Gas Corporation at Indian Institute of Information Technology Allahabad, India, Feb, 2020.
- Participated in 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON), IEEE, 8th - 10th November 2019.
- An colloquium on "Information Flux and its impact on societal resilience: a cause of conflict or concord" for Colloquium Organised at Indian Institute of Information Technology Allahabad, 22th August 2020

- On "IoT need with design, development and application" for AICTE Sponsored Online STTP on "Advanced Next Generation Wireless Technique" Organised by United College of Engineering and Research, 31st July 2020.
- On Teaching, Learning –Perspective View for Wireless 'X' in the One week FDP program on "Exemplary Practices in Teaching-Learning and Evaluation of courses in Computer Science & Information Technology" in Online mode- Jointly organized by Visvesvaraya Technological University, Kalaburagi, Karnataka and IIIT Allahabad, Prayagraj.
- On "IoT Perspective Concept State of Art with Applications" for Webinar Organised by Computer Society of India Allahabad Chapter, 5th July 2020.
- On "IoT Concepts-Performance Modelling and Applications: a Perspective View" for 2nd International conference (Virtual Conference), Second International Conference on "Advances in Computing and Information Technology (IACIT-2020) Organised by Reva University, Bangalore Chapter, 29th April 2020.
- On "Introduction and Evaluation, Including Definition and History of IoT" Delivered lectures for Oil and Natural Gas Corporation delegates at Indian Institute of Information Technology, Allahabad, India, Feb, 2020.

Conferences/Event organized

- Two Days Workshop on Internet of Things and Aerial Mesh Networks (IoTAMN-2019) during December 19-20, 2019 at IIITA. (Overall Organizer).
 1. Practical Sessions and Demonstrations are organized separately with our industrial partner.



Dr. Vrijendra Singh

Department : Information Technology
Designation : Associate Professor & HoD

Experience (in years):
 Teaching/Research: 18+ years

New courses developed:

- Title: Artificial Life Simulation, Cryptography
- New Lab Setup: Intelligent Signal Processing Lab, Extension of Deep Learning Lab

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Page
1	Anjali Gautam, Vrijendra Singh	CLR-based deep convolutional spiking neural network with validation based stopping for time series classification	Applied Intelligence, Springer US	50	3	March 2020	830-848
2	Anjali Gautam, Vrijendra Singh	CNN-VSR: A Deep Learning Architecture with Validation-Based Stopping Rule for Time Series Classification	Applied Artificial Intelligence, Taylor & Francis	34	2	January 2020	101-124

Average Impact Factor: 1.935

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

S. No.	Author(s)	Article Title	Conference Title	Date-Month-Year	Page
1	Samarjeet Yadav, Satya Prakash, Neelam Dayal, Vrijendra Singh	Forensics Analysis of WhatsApp in Android Mobile Phone	International Conference on Advances in Electronics, Electrical & Computational Intelligence (ICAECE), IIIT Allahabad	May 31-June 01, 2019	1-15

Seminars and invited talks presented:

- Industrial Training Programme for ONGC Personnel on "Big Data Analytics, Artificial Intelligence, Blockchain Technology and IoT", Title of the talk "Cryptography Basics for Blockchain", Dept. of IT, IIIT Allahabad, INDIA, Feb. 26, 2020.
- Two Day Workshop on "Internet of Things and Aerial Mesh Networks", Organised by the WSN Lab, IIIT Allahabad, Prayagraj, Title of the talk "Principal components and Stochastic Learning for Internet of Things Applications", Dec. 20, 2019.
- IEEE CIS Summer School 2019 on "Big Data Analytics and Stream Processing: Tools, Techniques and Application"- IIIT Allahabad, Prayagraj, Title of the Talk "Time Series Data Analysis", Aug. 14, 2019.
- Teacher's Training Programme (FDP) on "Application of Embedded Systems to Internet of Things (IoT) using Machine Learning" at ITM University Gwalior (M.P.), India, June 24-29, 2019.
- 7-Days Workshop (Self-Financed) on "Satellite Image Analysis for Contemporary Applications: Hands on with ENVI and Matlab", IIIT Allahabad, Prayagraj, Apr. 27, 2019.

Conferences attended outside IIIT Allahabad:

- Session Chair, International Conference on Contemporary Computing and Applications (IC3A 2020), [IEEE, TEQIP-3], Dr. AP J Abdul Kalam Technical University, Uttar Pradesh, Lucknow, India, Feb. 05-07, 2020.
- Technical Committee Chair & Session Chair, 3rd IEEE Conference on Information & Communication Technology (CICT-2019), IIITAllahabad, India, Dec. 06-08, 2019.
- Session Chair, 4th International Conference on "Information Systems and Computer Networks (ISCON)", [IEEE], GLA University Mathura, U. P. India, Nov. 21-22, 2019.
- Technical Committee Chair, 2nd International Conference on Communication Networks and Computing (CNC-2019), ITM University Gwalior, M. P. India, Nov. 14-16, 2019.
- Co- Chair, IEEE CIS Summer School 2019 on "Big Data Analytics and Stream Processing: Tools, Techniques and Application"- IIIT Allahabad, Prayagraj, Aug. 10-14, 2019.

Work done in project undertaken in the Institute:

- Principal Investigator, "Speaking Geo-GP Assistant", RESPOND, Indian Space Research Organization, Department of Space, Govt. of India, March. 01, 2019 – August 31, 2019, Successfully Completed
- Principal Investigator, "Classified Signal Project", Pragmalytics Technologies Pvt. Ltd. Kerala, Aug. 29.2019 – Dec. 31, 2019. First Phase Completed, Ongoing

Training programmes organized:

- Coordinator, Industrial Training Programme for ONGC Personnel on "Big Data Analytics, Artificial Intelligence, Blockchain Technology and IoT", Dept. of IT, IIIT Allahabad, INDIA, Feb. 24-28, 2020.
- Coordinator, Two Days Workshop on "Robotics and Machine Intelligence", [IIIT-A, IEEE RAS UP Section], Centre of Intelligent Robotics, IIIT Allahabad, INDIA, Jan. 02-03, 2020.
- Member - Workshop Committee, T wo Day Workshop on Internet of Things and Aerial Mesh Networks, Organised by the WSN Lab, IIIT Allahabad, Prayagraj, Title of the talk "Principal components and Stochastic Learning for Internet of Things Applications", Dec. 19-20, 2019.
- Member of Organizing Committee, XXXIV Annual IAPT Convention-2019 & National Seminar on Recent Advances & Innovations in Physics Teaching & Research (RAIPTR-2019), IIIT Allahabad, India, October 13-15, 2019.
- Organizing Chair, International Conference on Machine Intelligence and Signal Processing (MISP), at IIIT Allahabad, INDIA, Sept. 7-10, 2019.
- Faculty Coordinator, "Two Days Lecture Series on Good Research Practices", Dept. of IT, IEEE sponsored IIIT Allahabad, Nov. 27-28, 2019.
- Member of Organizing Committee, IEEE CIS Summer School 2019 on "Big Data Analytics and Stream Processing: Tools, Techniques and Application"- IIIT Allahabad, Prayagraj, Aug. 10-14, 2019.

Other Activities:

- (a) Technology Developed
- Deep Learning based Time Series data modeling for classification, representation and forecasting
- Voice assisted Village resource optimisation and planning software



(b) Software Developed

- Speaking Geo-GP Assistant Android App: Voice assisted Gram Panchayat/Village Resource Optimization and Planning Android App based on ISRO Satellite GIS data (Users: ISRO HQ)
- Time Series Modeling and Analysis

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

- AKTU Lucknow, IIIT Una, H.P.

(e) Awards and Honors

- 50 Fabulous EduTech Leaders Global Award, 8th World Education Congress, July 04, 2019, Mumbai

(f) Continuing Education Activities

- AICTE Training and Learning (ATAL) sponsored FDP on “Blockchain”, NSC Lab, IIIT Allahabad, Oct. 21-25, 2019. (attended)
- Coordinator and Main Teacher (Self-Financed), 5-Days Course cum Workshop on “Effective Image Processing and Machine Learning Tools for Contemporary Applications” at IIITA, (Technical Co-Sponsor: IEEE CIS UP Section), May 27-31, 2019.

(g) Participation in the High Level Industry, Academia Interaction Programme during Summer Programs

- Dept. of Biotechnology, Govt. of India, IIIT Una (H.P.), AKTU Lucknow.

(h) Any other important activity not specified above.

- Vice President – IEEE Computational Intelligence Society (UP Section)
- Technical Expert, Scientific Advisory Committee, BIRAC, Dept. of Biotechnology, GoI, India
- Consultant to Pragmalytics Technologies, Kochi, India
- Advisor to Network Power Solution Enterprise, New Delhi
- Advisor- Research Centre, Panimalar Engineering College Chennai, Anna University, India
- Member-Senate, IIIT Una, Himanchal Pradesh
- Member-Academic Council, CAS, AKTU Lucknow
- Member-BOS, Dept. of CSA, ITM University, Gwalior, M. P.
- Member – Asia Pacific Neural Network Assembly
- Member – International Association of Engineers
- Life Member -- Society for Neurochemistry India



Dr. Manish Kumar

Department : Information Technology
Designation : Associate Professor

Experience (in years):
 Teaching/Research: 18 years

New courses developed:

- Title: Advance Data Analytics (IADA730E)
- Development of Data Analytic Lab
- Development of CordIoT Lab (member)

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Page
1	Pal, Amrit, and Manish Kumar	"Distributed synthesized association mining for big transactional data."	<i>Sadhanā</i>	45	1	2020	1-13
2	Shivhare, Anubhav, Vishal Krishna Singh, and Manish Kumar	Anticomplementary Triangles for Efficient Coverage in Sensor Network-Based IoT	<i>IEEE Systems Journal</i>	NA	NA	2020	NA
3	Singh, Vivek Kumar, Shekhar Verma, and Manish Kumar	ODECS: An on-demand explosion-based compressed sensing using random walks in wireless sensor networks.	<i>IEEE Systems Journal</i>	13	3	2019	2466-2475
4	Singh, Vivek Kumar, Shekhar Verma, and Manish Kumar	Stream Processing With Concept Drift for Event Identification in Sensors Enabled IoT Environment	<i>IEEE Sensors Journal</i>	19	24	2019	12187-12195
5	Singh, Vishal Krishna, Bhoomika Nathani, and Manish Kumar	WEED-MC: Wavelet Transform for Energy Efficient Data Gathering and Matrix Completion.	<i>IEEE Transactions on Parallel and Distributed Systems</i>	31	5	2019	1066-1073
6	Singh, Vishal Krishna, Vivek Kumar Singh, and Manish Kumar	Network health monitoring of WSNs using node loss rate calculations	<i>Wireless Personal Communications</i>	108	1	2019	253-268.
7	Pal, Amrit, and Manish Kumar	"DLME: Distributed Log Mining Using Ensemble Learning for Fault Prediction."	<i>IEEE Systems Journal</i>	13	4	2019	3639-3650

Average Impact Factor:

- IEEE Systems Journal (Impact Factor: 4.63)
- IEEE Sensors Journal (Impact Factor: 3.07)
- IEEE Transactions on Parallel and Distributed Systems (Impact Factor: 2.6)
- Wireless Personal Communications (Impact Factor: 1.06)
- Sadhana (Impact Factor: 0.849)



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

S. No.	Author(s)	Article Title	Conference Title	Paper No	Date-Month-Year	Page
1	Shivhare, Anubhav, Manish Kumar Maurya, Vatsal J.	Spatial Correlation Based Device Level Clustering for IoT.	IEEE Conference on Information and Communication Technology	113	December 2019	pp. 1-5. IEEE, 2019.

Invited talks delivered:

- Seminar on "Database Management in Mobile Computing Environment" at VIT Chennai on 20th January 2020.
- "Big Data Algorithm", Faculty Development Programme (ATAL-AICTE) on "Data Sciences" from 8th-12th November, 2019, IIIT Allahabad, Prayagraj.
- "Mining data" Faculty Development Programme (ATAL-AICTE) on "Data Sciences" from 8th-12th November, 2019, IIIT Allahabad, Prayagraj.
- "Distributed Database Systems", Faculty Development Programme on "Blockchain" from 21st-25th October, 2019, IIIT Allahabad, Prayagraj.
- "Distributed Database", Workshop on "Big Data Analytics and Machine Learning", from 19th-22nd October, 2019 Global Academy of Technology, Bangalore.
- "Data Management in Mobile Computing", International Conference on "Knowledge & Policy for Sustainable Development: Global Lessons and Local Challenges" from 25th September to 27th September, 2019 at GGS Indraprastha University, Delhi.
- "Distributed Database and Consensus Protocols", Workshop on "Block Chain", from 16th September to 20th September, 2019 MNNIT Allahabad, Prayagraj.
- "Mining Data and Big data algorithms" International Conference on "Machine Intelligence and Signal Processing, MISP-2019" from September 7-10, 2019, IIIT Allahabad, Prayagraj.
- "Data Management in Mobile Computing", Faculty Development Programme on "Emerging Trends in Networking", 24 June - 28 June, 2019 Centre for Advanced Studies, AKTU, Lucknow.
- "Big Data Mining and Multi Relational Data Mining", Workshop on "Machine Learning & Data Analytics 2019", 25 May - 31 May, 2019 IIIT Allahabad.
- "New Trends in Wireless Sensor Networks", Technical Education Quality Improvement Programme on "Advances in Wireless and Optical Networks", 27 May - 01 June, 2019 Rajkiya Engineering College, Azamgarh, UP.

Conferences attended outside IIIT Allahabad:

- Session Chair in "3rd IEEE Conference on Information & Communication Technology during December 6-8, 2019." held at IIIT Allahabad, Prayagraj (UP).
- Session Chair in "2nd International Conference on VLSI, Communication and Signal Processing during October 21-23, 2019." held at MNNIT Allahabad, Prayagraj (UP).

Work done in project undertaken in the Institute:

- Design and Development of Dimensionality Reduction Techniques for Cyber Physical Systems
- IOT based water quality assessment for river Ganga.

Training programmes organized:

- 3rd Workshop on Machine Learning & Data Analytics (25th to 31st May 2019)
- Faculty Development Programme on Data Sciences (8th to 12th November 2019)

Other Activities:

- Professional Membership: Become SENIOR IEEE member, October 2019
- Consultancy and Advisory: Advisor, Allahabad SMART CITY Project
- Mento r-Startup " Social Vaidya Medical Pvt Ltd." by IIIT Alumnai Mr. Deepak Kr. Sah



Dr. Vijay Kumar Chaurasiya

Department : Information Technology
Designation : Associate Professor

Experience (in years):
 Teaching/Research: 16 years

New courses developed:

- Wireless Networks, IWSN 630 E

Books and book-chapters published:

S. No.	Author(s)	Book Title	Publisher	Year	Place of publication	Page
1.	Gupta, Ayush and Verma, Ravinder and Shishodia, Mrigendra and Chaurasiya, Vijay	Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough	Springer, Cham	2020	Springer Nature. Switzerland	145-155
2.	Chaurasia, Vijay Kumar and Yunus, Alhasha and Singh, Madhusudan	Blockchain Technology for Smart Cities	Springer	2020	Springer, Singapore. https://doi.org/10.1007/978-981-15-2205-5_7	133-154

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Page	IF
1.	Lal, Nidhi and Kumar, Shishupal and Chaurasiya, Vijay Kumar	An adaptive neuro-fuzzy inference system-based caching scheme for content-centric networking	Soft Computing	23	12	2019	4459-4470	3.050
2.	Lal, Nidhi and Kumar, Shishupal and Chaurasiya, Vijay Kumar	A network-coded caching-based multicasting scheme for information-centric networking (ICN)	Iranian Journal of Science and Technology, Transactions of Electrical Engineering	43	3	2019	427-438	0.875
3.	Lal, Nidhi and Kumar, Shishupal and Kadian, Garima and Chaurasiya, Vijay Kumar	Caching methodologies in Content centric networking (CCN): A survey	Elsevier Computer Science Review	31	-	2019	39-50	7.707
4.	Lal, Nidhi and Kumar, Shishupal and Chaurasiya, Vijay Kumar	An efficient update strategy for content synchronization in Content-Centric Networking (CCN)	IEEE China Communications	16	1	2019	108-118	2.30
5.	Kumar, Shishupal and Lal, Nidhi and Chaurasiya, Vijay Kumar	An energy efficient IPv6 packet delivery scheme for industrial IoT over G. 9959 protocol based wireless sensor network (WSN)	Elsevier Computer Networks	154	-	2019	79-87	3.11
6.	Lal, Nidhi and Kumar, Shishupal and Chaurasiya, Vijay Kumar	A Road Monitoring Approach with Real-Time Capturing of Events for Efficient Vehicles Safety in Smart City	WIRELESS PERSONAL COMMUNICATIONS	-	-	2020	-	1.061

Average Impact Factor: 3.017

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

S. No.	Author(s)	Article Title	Conference Title	Paper No	Date-Month-Year	Page
1.	Epari, Aneesh and Chaurasiya, Vijay K and Kumar, Shishupal	Roadside Parking Space Search and Assistance System for Modern Cities	2019 IEEE International Conference on Engineering and Telecommunication (EnT)	1	Nov, 2019	1-7
2.	Gupta, Arti and Chaurasiya, Vijay Kumar	Reinforcement Learning Based Energy Management in Wireless Body Area Network: A Survey	2019 IEEE Conference on Information and Communication Technology	1	2019	1-6

Conferences attended outside IIIT Allahabad:

- Conference name: **Engineering and Telecommunication – En&T-2019.**
- Organizing institution/society: Moscow Institute of Physics and Technology (Russia)
 - Date: 20-21 November, 2019
 - Type of participation: Oral
 - Session: Artificial intelligence systems

Work done in project undertaken in the Institute:

- Working on “RFID based Real Time Traffic Management System and pollution control using Internet-of-Things (IoT) protocols” under one time seed money for Research to Assistant Professor. Amount: Rs. 10.0 Lacs.
- Working on “**Hindi to English Machine Translation System in Judicial Domain**” funded by **Diety, Gol. Grant Amount Rs. 208.44 Lacs.**
- Working on “AVIRAL: a student's academic progress management portal”. Grant Amount Rs. 80.0 Lacs.
- Working on “popularizing the benefits of Information and Communication Technology (ICT) among the farmers and rural population in Prayagraj, Uttar Pradesh” funded by Department of Science and Technology, Ministry of Science and Technology, Govt. of India. Grant Amount Rs. 11.975 Lacs.

Other Activities:

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

- **Visited IIT Kanpur, MNNIT Allahabad, ITI Mankapur, ITI Raibarely.**



Dr. Satish Kumar Singh

Department : Information Technology

Designation : Associate Professor

Experience (in years):

Teaching/Research: 15 years, Industry: 01 Year

New courses developed:

- Visual Recognition
- Data Compression
- Image and Video Processing

Research papers published in journals:

- Suvidha Tripathi, and Satish Kumar Singh, "Cell Nuclei Classification In Histopathological Images using Hybrid OLConvNet," ACM Transactions on Multimedia Computing, Communications, and Applications, vol.16, no.1s, pp.1-22, art.32, 2020 (ACM) [IF:2.5] 2020
 - Soumendu Chakraborty, Satish Kumar Singh, and Kush Kumar "Facial Biometric System for Recognition using Extended LGHP Algorithm on Raspberry-Pi," IEEE Sensors Journal, vol.20, no.14, pp.8117-8127, 2020 (IEEE) [IF: 3.0] 2020
 - Anamika Jain, Satish Kumar Singh, and Krishna Pratap Singh "Handwritten Signature Verification using Shallow Convolutional Neural Network," Multimedia Tools and Applications, Accepted (Springer) [IF:2.1] 2020
 - Shiv Ram Dubey, Soumendu Chakraborty, Swalpa Roy, Satish Kumar Singh, and Bidut Baran Choudhury, "diffGrad: An Optimization Method for Convolutional Neural Networks," IEEE Transactions on Neural Networks and Learning Systems (Accepted) DOI:10.1109/ TNNLS. 2019.2955777 (IEEE) [IF: 11.6] 2020
 - Suvidha Tripathi, and Satish Kumar Singh "Ensembling Handcrafted features with Deep Features: An Analytical Study for Classification of Routine Colon Cancer Histopathological Nuclei Images," Multimedia Tools and Applications, Accepted (Springer) [IF: 2.1] 2019
 - 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:2.1] 2019
 - 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: 2.1]
- Average Impact Factor: 2.13 (Journals)

Google Scholar Impact: Citations 1012 h-index 17 i10-index 25

Major Journal in which the papers got Published

- IEEE Transactions on Image Processing
- IEEE Signal Processing Letters
- IEEE Journal of Biomedical and Health Informatics
- Elsevier Expert Systems with Applications
- IET Image Processing
- Springer Multimedia Tools and Application
- Elsevier Computers & Electrical Engineering
- Elsevier Pattern Recognition Letters
- ACM Transactions on Multimedia Computing
- Communications, and Applications
- IEEE Sensors Journal
- IEEE Transactions on Circuits and Systems for Video Technology



- IEEE Transactions on Neural Networks and Learning Systems

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, 2019

Seminars and invited talks presented:

- Date: Jan 31-Feb 01, 2020
Event: Workshop & Internship Program on Data Analytics and Machine Learning, at Alva's Institute of Engineering & Technology, in Association with IIIT Allahabad, Mijar Campus, Moodbidri, Karnataka, India
Topic-1: Image Classification: A Data Driven approach
Topic-2: Pre-Deep Learning Essentials
Role: Resource person
- Date: Dec 27-28, 2019
Event: Two Days Lecture Series on Good Research Practices, Indian Institute of Information Technology Allahabad, India
Topic: Good Research Practices

Work done in project undertaken in the Institute:

- Title: A Web Browser based Intelligent Kernel Tool for Automatic Detection and Blocking of Obscene Image and Video Contents in Real Time
Funding Agency: Ministry of Home Affairs, Government of India
Amount: Rs. 38,30,400/- Only.
Status: Ongoing
- Title: Image Super-resolution
Funding Agency: Defence Institute of Psychological Research, Defence Research and Development Organization, Government of India.
Amount: Rs. 9,22,000/- Only.
Status: Ongoing
- Title: Design and Development of Software package(s) for image illumination normalization and coloring of IR images
Funding Agency: Defence Institute of Psychological Research, Defence Research and Development Organization, Government of India.
Amount: Rs. 24,52,643/- Only.
Status: Completed

Training programmes organized:

- Date: Dec 06-08, 2019
Event: IEEE Signal Processing Society Distinguished Lecturer (DL) Program, Grant Indian Institute of Information Technology, Allahabad, India
Topic: Distinguished Lecture by Gaurav Sharma, PhD, Fellow IEEE, IIIT Allahabad & IIIT Delhi, New Delhi
Role: Coordinator
- Date: Dec 06-08, 2019
Event: 3rd IEEE Conference on Information and Communication Technology, Indian Institute of Information Technology, Allahabad, India
Topic: IEEE Conference
Role: Conference Organizing Chair
- Date: Dec 27-28, 2019



Event: Two Days Lecture Series on Good Research Practices, Indian Institute of Information Technology Allahabad, India
Topic: Good Research Practices
Role: Coordinator

- Date: June 24–30 2019
Event: 2nd National Workshop & Summer School, IIIT Allahabad, India
Topic: Advances in Deep Architectures for Signal, Image and Vision Applications
Role: Workshop & Summer School Coordinator



Dr. Krishna Pratap Singh

Department : Information Technology

Designation : Associate Professor

Experience (in years) :

Teaching/Research: 16 years

Research papers published in journals:

S. No.	Author(s)	Title of the Article	Journal	Volume	Year	Page
1	B Chakraborty, S Verma, KP Singh	Temporal Differential Privacy in Wireless Sensor Networks	Journal of Network and Computer Applications	155	2020	102548

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

S. No.	Author (s)	Title of the Article	Conference Title	Year	Pages
1	DM Lal, KP Singh, US Tiwary	Highlighted Word Encoding for Abstractive Text Summarization	International Conference on Intelligent Human Computer Interaction	2019	77-86
2	UP Singh, K Rakesh, V Kumar, KP Singh	Improved Coupled Autoencoder based Zero Shot Recognition using Active Learning	IEEE Conference on Information and Communication Technology	2019	1-6
3	UP Singh, S Chavan, S Hindwani, KP Singh	Self-taught Learning: Image Classification Using Stacked Autoencoders	Soft Computing for Problem Solving 2019	2019	1-14
4	S Tiwari, S Verma, KP Singh, M Syafrullah, K Adiyarta	Client Side Channel State Information Estimation for MIMO Communication	6th International Conference on Electrical Engineering, Computer	2019	

Seminars and invited talks presented:

- Emerging Trends in IoT and Machine Learning" on 4-5th May 2019, South Asian University Delhi.
- MLDA-19, IIIT Allahabad.
- ADASIVA-19, IIIT Allahabad.
- Data Analytics & Machine Learning ALVA'S, Manglore, Feb, 22-29, 2020 (7 Days Training Programme)
- Big Data Analytics, Artificial Intelligence, BlockChain Technology and IOT" conducted during 24th to 28th February, 2020 at IIIT Allahabad.
- Faculty Development Programme on Data Sciences (8th to 12th November 2019) organized by Data Analytics Lab, IIIT Allahabad supported by AICTE Training and Learning (ATAL)
- Workshop on Transfer Learning for NLP in IHCI, 2019, IIITA.

Conferences attended outside IIIT Allahabad:

- SocPros-2019, Sep., 17-19, 2019, Liverpool Hope University, UK.
- Keynote Speaker in the ICDSA 2019, Jaipur, India on December 2-3, 2019

Work done in project undertaken in the Institute:

- Funded by Erasmus+ Programme of the European Union-(2020-2022) Projects (CO-PI), Rs. 75 Lakh TEAL 2.0.
- Funded By DST-ICPS (2019-2021), CO-PI (Rs. 6.0 Lakh); Design and Development of Dimensionality Reduction Techniques for Cyber Physical System.

Training Programmes organized:

- Two months Summer Training for Students.
- MLDA-19 (One Week)
- Big Data Analytics, Artificial Intelligence, BlockChain Technology and IOT, for training of ONGC Scientist; conducted from 24th to 28th February, 2020 at IIIT Allahabad.
- CICT, 2019, IIITA.
- Workshop on Transfer Learning for NLP in IHCI, 2019, IIITA.

Other Activities: Continuing Education Activities

- MLDA-19, IIIT Allahabad, June, 20-26, 2018.

Participation in the High Level Industry, Academia Interaction Programme during summer SAKURA SCIENCE EXCHANGE PROGRAMME- Tokyo, Japan, January 26 - February 1, 2020. Participated as IIIT Allahabad representative as a member of the delegation.





Dr. S. Venkatesan

Department : Information Technology

Designation : Associate Professor

Experience (in years) :

Teaching/Research: 13 years

Research papers published in journals:

S. No.	Author(s)	Title of the Article	Journal	Year
1	Jaya Singh, Ashish Gimekar and Subramanian Venkatesan	An efficient lightweight authentication scheme for humancentered industrial Internet of Things	International Journal of Communication Systems	2019
2	Vijay Kumar Yadav, Anshul Anand, Shekhar Verma, S Venkatesan	Private Computation of the Schulze Voting Method over the Cloud	International Journal of Cluster Computing,	2019
3	Pravin Mundhe, Vijay Kumar Yadav, Shekhar Verma and S Venkatesan	Efficient Lattice-Based Ring Signature for Message Authentication in VANETs	IEEE Systems Journal	2020

Average Impact Factor: 4.463 (2018), IEEE System Journal

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

S. No.	Author(s)	Title of the Article	Conference Title	Date
1	Gaganjeet Singh Reen, Manasi Mohandas, S. Venkatesan	Decentralized Patient Centric e-Health Record Management System using Blockchain and IPFS	2019 IEEE Conference on Information and Communication Technology	06/12/2019
2	Nitish Andola, Raghav, Sourabh Prakash, S. Venkatesan, Shekhar Verma	SHEMB:A secure approach for healthcare management system using blockchain	2019 IEEE Conference on Information and Communication Technology	06/12/2019

Seminars and invited talks presented:

2019	Faculty Development Programme on Blockchain, sponsored by ATAL, AICTE, 21 to 25 th October 2019.	Blockchain Primitives and Blockchain: Ethereum Perspective IOTA
2019	Workshop on Blockchain and its Applications, Sponsored and partially organized at GAT, Bangalore. 20 and 21 st September 2019.	Blockchain Primitives IOTA Ethereum Bitcoin
2019	Faculty Development Programme on Blockchain, sponsored by ATAL, AICTE and organized by MNNIT Allahabad. 15 th September 2019.	Blockchain Primitives and Blockchain: Ethereum Perspective
2019	Third Workshop on Machine Learning & Data Analytics, IIIT Allahabad, 30 th May 2019.	Demo on ELK Stack
2019	Third Workshop on Machine Learning & Data Analytics, IIIT Allahabad, 30 th May 2019.	Data Security and Privacy

Work done in project undertaken in the Institute:

- Department of Science & Technology - Indo-Norway Collaborative Project
Title: Cyber-Physical Security in Energy Infrastructure of Smart Cities (CPSEC)
Recommended Cost: Approximate Rs.36 lakhs
Role: Co-PI
Duration: 3 years [From October 2018]
- Department of Science & Technology - ICPS
Development of Secure IoT Communication using the Blockchain Technology
Recommended Cost: Approximate Rs.36 lakhs
Role: Principal Investigator
Duration: 3 years from [From October 2019]

Training Programmes organized:

- Faculty Development Programme on Blockchain, sponsored by ATAL, AICTE. Program Period: 21 to 25th October 2019.
- Third Workshop on Machine Learning & Data Analytics, IIIT Allahabad, 25th May 2019 – 31st May 2019.
- Workshop on Blockchain and its Applications, Sponsored and partially organized at GAT, Bangalore. Program Period: 19 to 23rd September 2019.

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



Dr. Abhishek Vaish

Department : Information Technology

Designation : Assistant Professor

Experience (in years) :

Teaching/Research: 12 years, Industry: 2.5 years

Seminars and invited talks presented:

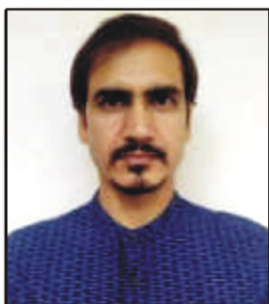
- Title: Trends of Cyber Security in Digital Era
Organization: Sahyadri College of Engineering & Management
Date: 2nd and 3rd November, 2019.

Conferences attended outside IIIT Allahabad:

- XI International IT-Forum with the participation of the BRICS and SCO countries 10-12 June 2019, Online participation in the Meeting of the International Ugra Expert Club on Information Security.
- Khanty-Mansiysk ICCA , 2020 UCSY, Yangon, 27th to 28th Feb, 2020, Myanmar, Invited Talk, Chaired a session of Network Security.

Work done in project undertaken in the Institute:

- Digital Signage Project of IIIT Allahabad, Member of Web Coordination Committee.



Dr. Triloki Pant

Department : Information Technology

Designation : Assistant Professor

Experience (in years) :

Teaching/Research: 11 years

Books and book-chapters published:

S. No.	Author(s)	Book Title	Publisher	Year	Place	Page
1	Pant, T. and Pant, S.	"The Technology Shift for MOOC-Based Libraries: The Need of Libraries for MOOCs" in Handbook of Research on Emerging Trends and Technologies in Library and Information Science	IGI Global	2020	India	109-118

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

S. No.	Author(s)	Article Title	Conference Title	Paper No	Date-Month-Year	Page
1	Vikash Kumar Mishra, Triloki Pant	Monitoring the Change in Water Class of Two Rivers in Sangam Region, Prayagraj, India using Landsat-8 OLI Imagery	IGARSS 2019-2019 IEEE International Geoscience and Remote Sensing Symposium	DOI: 10.1109/IGARSS.2019.8897973	28/7/2019	5921-5924
2	Vikash Kumar Mishra, Triloki Pant	Impact of Cluster Sampling on the Classification of Landsat 8 Remote Sensing Imagery	International Conference on Machine Intelligence and Signal Processing	DOI: https://doi.org/10.1007/978-981-15-1366-4_30	7/9/2019	371-381
3	Vikash Kumar Mishra, Triloki Pant	Mapping and Prediction of Urban Area with Markov-CA Model using Landsat-8 Images for Effective Management of Urban Area in Prayagraj City	2020 URSI Regional Conference on Radio Science (URSI RCRS 2020)	F03.6	12-14 February 2020	

Seminars and invited talks presented:

- i. Invited lecture at K. Banerjee Centre of Atmospheric & Ocean Studies, Allahabad University (20th May 2019) on the topic "Introduction to Image Enhancement Techniques".
- ii. Invited lecture at Department of Electronics & Communication Engineering, Graphic Era University, Dehradun (29th Feb. 2020) on the topic "Image Processing Applications for Satellite Image Analysis".

Training programmes organized:

- i. 7 Days workshop on "Satellite Image Analysis for Contemporary Applications: Hands on with ENVI and Matlab" during 22-28 April 2019 conducted in Advanced Image and Data Science Lab. (Department of Information Technology). The event was coordinated by Dr. Triloki Pant.
- ii. 5 Days workshop on "Effective Image Processing and Machine Learning Tools for Contemporary Applications" with an opportunity to pursue Ph.D. programme at IIITA (Technical Co-sponsor: IEEE CIS UP Section) during 3-7 June 2019 conducted in Advanced Image and Data Science Lab. (Department of Information Technology). The event was coordinated by Dr. Triloki Pant and Dr. Vrijendra Singh.

Other Activities:

- **Awards and Honors**

"Nation Builder Award" as Faculty Coordinator, Prayas, IIIT Allahabad, Awarded by: Rotary Allahabad North (Sep. 2019)

- Attended a 10 Days Workshop cum Training Programme on "Hyperspectral Remote Sensing and its Applications" conducted at Indian Institute of Remote Sensing, ISRO, Dehradun during 9-20 December, 2019.



Dr. Rahul Kala

Department : Information Technology

Designation : Assistant Professor

Experience (in years) :

Teaching/Research: 11 years

Research papers published in journals:

S.No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Page
1.	R. Kala	Robot Mission Planning using Co-evolutionary Optimization	Robotica	38	3	2020	512-530
2.	U. Kumar, A. Banerjee, R. Kala	Collision avoiding decentralized sorting of robotic swarm	Applied Intelligence	50	-	2020	1316-1326
3.	S.M.H. Jafri, R. Kala	Motion Planning for an Outdoor Mobile Robot on a Probabilistic Costmap	International Journal of Robotics and Automation	34	6	2019	Paper 78

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

S. No.	Author(s)	Article Title	Conference Title	Date-Month-Year	Page
1.	A. Chandra, R. Kala	Regularised Encoder-Decoder Architecture for Anomaly Detection in ECG	Conference on Information and Communication Technology, Allahabad, India	6-8 Dec. 2019	1-6
2.	R. Kala	Evolutionary Planning for Multi-User Multi-Task Missions	2019 IEEE Congress on Evolutionary Computation, Wellington, New Zealand	10-13 June 2019	2689-2696
3.	A. Bharadwaj, R. Kala	Sensor based Evolutionary Mission Planning	2019 IEEE Congress on Evolutionary Computation, Wellington, New Zealand	10-13 June 2019	2697-2704

Seminars and invited talks presented:

- Title: High Rate/High Definition Data in Self-driving Cars
Organization: IEEE CIS Summer School at IIIT Allahabad
Date: 11th August, 2019



- Title: “Artificial Intelligence and its Applications in Robotics” and “Autonomous Vehicles”
Organization: Universitas Budi Luhur, Jakarta
Date: 17th-19th July, 2019
- Title: Artificial Intelligence and Machine Learning in Robotics
Organization: Global Academy of Technology Bangalore
Date: 1st-3rd July, 2019

Conferences attended outside IIIT Allahabad:

- IEEE Congress on Evolutionary Computation, Wellington, New Zealand, 10-13 June 2019 (Presented 2 papers).

Work done in project undertaken in the Institute:

- Self-Learning Maps: The aim of the project is to make the self-driving cars with production grade sensors make a map of the world. The project utilizes a low-cost stereo camera in the same effect. The current work is towards making a semantic map of all traffic signs and boards at the training time, which can be used at the testing time by the self-driving car. The known semantics are used for the re-localization of the vehicle as it travels. The vehicle may itself know an approximate position through a low-cost localization unit; however, looking at a semantic object, the position is rectified.
- SLAM in Extreme Weather Conditions: The aim of the project is to enable a vehicle localize itself in extreme weather conditions, in which the standard Simultaneous Localization and Mapping (SLAM) libraries fail. The project is seen from the perspective of a place recognition problem where the aim is to match image sequences from extreme light or weather condition into a similar sequence which is more suited for SLAM. Using this vehicle can know the approximate position using a detailed map for the ideal weather condition.
- Medical Cyber Physical System for lifestyle diseases using Big Data Analytics: The aim of the project is to detect lifestyle diseases at an early stage using home-grade medical devices measuring the body vitals. The focus was kept on the ECG sensors and the heart diseases. To advance the work, the problem was modelled as an anomaly detection problem, so that the limited patient data can be effectively utilized for testing only, not needing a further subdivision into training, testing and validation parts. The anomaly detection was also learnt from a continual learning framework to better model the practical problem.
- Mission Planning using Sampling based techniques: The project enables a robot solve very complex problem specified as a mission for home and office service robotics. The project is now made iterative, where the task specifications can be continuously given to the robot that does a continuous optimization of the mission, while simultaneously acting on the same. At the same vein the specifications are now generalized to any infix expression consisting of the Boolean operators of AND, OR, and the temporal operator THEN. The results are displayed over the Pioneer LX robot.
- Newgen Innovation & Entrepreneurship Development Centre: The project identifies and develops innovation student ideas towards a product in pursuit of developing entrepreneurs among students. As a part of the project numerous project ideas have been supported through numerous cycles of recruitments. The centre was involved in a number
- of workshops, most notably the workshop done in collaboration with PUM Netherlands and the one with Startupx Grind. The centre also invited numerous dignitaries in the e-summit and hosted the 1st NewGen IEDC award series to recognize the best student projects among all NewGen IEDC centres and to foster networking among the NewGen IEDCs.

Training programmes organized:

- Two day Workshop on Robotics and Machine Intelligence, 2-3 January, 2020



Dr. Bibhas Ghoshal

Department : Information Technology
Designation : Assistant Professor

Experience (in years) :
 Teaching/Research: 10 years

New courses developed:

- Introduction to Internet of Things

Research Paper Published in Journals:

SI	Author(s)	Article Title	Journal Name	Vol/No.	Year	Page
1	Kumar Rakesh, Sachan Akash, Gogoi Ankur, Ghoshal Bibhas	Application Phase Behavior Guided Thermal Management of Embedded Platforms	IEEE Embedded System Letters	Early Access Article	2020	
2	Dattatrey Manavendra, Tiwari Kumar Abhishek, Ghoshal Bibhas, Singh Jagpreet	Predicting Bone Modeling Parameters in Response to Mechanical Loading	IEEE Access	7	2019	122561-122572

Average Impact Factor: 3.2

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

SI.	Author(s)	Article Title	Conference Title	Year
1	Kumar Rakesh, Ghoshal Bibhas	Classification and Workload Balancing of Multi-Threaded Applications on Embedded Platforms	Proceedings of IEEE Computer Society Annual Symposium on VLSI (ISVLSI)	2020

Work done in project undertaken in the Institute:

Two projects currently underway at IIIT Allahabad:

- Project Title: PowerAware Compiler for Embedded Processors
 Sponsor: Ministry of Human Resource and Development, Govt. of India, under the IMPRINT India Program (<http://imprint-india.org>)
 Role: Principal Investigator
 Total Budget: 40.42 Lakhs
- Project Title: Research Constrained AI
 Project Type: Consortium Project
 Sponsor: Ministry of Electronics and Information Technology (MeitY)
 Partnering Institutions: CEERI Pilani (PI of the project), IIT Jodhpur, IIT Indore and IIIT Allahabad
 Role: Principal Investigator for the part to be carried out at IIIT Allahabad

Other Activities:

- Software Developed
- Nirikshak - Power and Energy Monitoring Tool for Embedded Processors and GPU
- Sahayak - Power and Energy Aware Compiler for Embedded Processors



Dr. Jagpreet Singh

Department : Information Technology

Designation : Assistant Professor

Experience (in years) :

Teaching/Research: 12 years

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	Year	Page
1.	Amit Kumar Dhar, Raghunath Reddy Madireddy, Supantha Pandit, Jagpreet Singh	Maximum independent and disjoint coverage	Journal of Combinatorial Optimization	39	2020	1017–1037
2.	Amrinder Singh Minhas, Gurpreet Singh, Jagpreet Singh, P.K. Kankar, Sukhjeet Singh,	A novel method to classify bearing faults by integrating standard deviation to refined composite multi-scale fuzzy entropy	Measurement	154	2020	107441
3.	Manvendra Dattatrey, Abhishek Kumar Tiwari, Bibhas Ghoshal, Jagpreet Singh	Predicting Bone Modeling Parameters in Response to Mechanical Loading	IEEE Access	7	2019	122561–122572

Average Impact Factor : 2.65, IEEE Access

Work done in project undertaken in the Institute:

- Work carried out on Seed money project



Dr. Soumyadev Maity

Department : Information Technology

Designation : Assistant Professor

Experience (in years) :

Teaching/Research: 6 Years 11 Months

New courses developed:

- Title: Intrusion Detection Systems

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

S. No	Author(s)	Title of the Article	Conference Title	Paper No	Date-Mont h-Year	Pag es
1	M. K. Aditia, S. Paidia, F. Altaf, S. Maity	Certificate-less Public Key Encryption For Secure e-Healthcare Systems	2019 IEEE Conference on Information and Communication Technology (CICT), Allahabad, India.	DOI: 10.1109/CICT48419.2019.9066190	Dec. 6-8, 2019	pp. 1-5
2	Shrishti, M. S. Burra, C. Maurya, S. Maity	Leakage Resilient Searchable Symmetric Encryption with Periodic Updation	2019 3rd International Conference on Trends in Electronics and Informatics (ICOEI), IEEE, Chennai, India.	DOI: 10.1109/ICOEI.2019.8862626	April, 23-25, 2019	pp. 22-29

**Dr. Mohammed Javed****Department** : Information Technology**Designation** : Assistant Professor**Experience (in years) :**

Teaching/Research: 04 Years

Research papers published in journals:

S. No.	Author(s)	Title of the Article	Journal	Volume (No)	Year	Page
1	Mohammed Javed, Tryambak Bhattacharjee, P. Nagabhushan	Enhancement of Variably Illuminated Document Images Through Noise Induced Stochastic Resonance	IET Image Processing	13 (13)	2019	2562-2571

Average Impact Factor of all publications and name of the major journal in which publication are made: 2.1

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

S. No.	Author(s)	Title of the Article	Conference Title	Page No	Date-Month-Year	Pages
1.	Bulla Rajesh, Mohammed Javed, P. Nagabhushan,	Segmentation of Text-Lines and Words from JPEG Compressed Printed Text Documents Using DCT Coefficients	IEEE Data Compression Conference (DCC2020)	181	March 2020	500
2.	Bulla Rajesh, Mohammed Javed, Ratnesh, Shubham Srivastava,	DCT-CompCNN: A Novel Image Classification Network Using JPEG Compressed DCT Coefficients	IEEE CICT2019		December 2019	1-5
1.	Bulla Rajesh, Mohammed Javed, P. Nagabhushan	Segmentation of Printed Text-Lines Directly in JPEG Compressed Document Images	IEEE GCCE2019		October 2019	1091-1092

Seminars and invited talks presented:

1. 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: March 11-12, 2020

Topic : Image Processing Hands On using MATLAB
Role : Resource Person

2. TEQIP Sponsored Faculty Development Program, Purvanchal University Jaunpur
Dates : September 14-18, 2019
Topic : Image Confidentiality
Role : Resource Person
3. Faculty Development Program, BBDU, Lucknow
Dates : July 16-20, 2019
Topic : Image Processing in Compressed Domain
Role : Resource Person

Conferences attended outside IIIT Allahabad:

1. GCCE-2019, Osaka, Japan
Dates : October 15-18, 2019
Role : Paper Presenter

Work done in project undertaken in the Institute:

CIAR, Development of Software for IIIT Allahabad (fully automated employing Machine Learning)

Training Programmes organized:

1. 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 31-March 12, 2020
Role : Organizer
2. National Workshop and summer school, ADASIVA-2019, IIIT Allahabad (Sponsored by DRDO, ISRO, CSIR, MathWorks and IEEE UP Section)
Dates : June 24-30, 2019
Role : Co-Coordinator
3. CICT2019 Conference at IIIT Allahabad
Dates : December 6-9, 2019
Role : Publicity Chair & Technical Session Coordinator



Dr. Anshu S. Anand

Department : Information Technology
Designation : Assistant Professor

Experience (in years) :
 Teaching/Research: 2 Years

Research papers published in journals:

S. No.	Author(s) [Surname, Forename]	Article Title	Journal Name	Volume	No.	Year	Page
1	Anand Anshu S., Srivastava Akash, Shyamasundar R. K.	A Deadlock-Free lock-based synchronization for GPUs	Concurrency and Computation: Practice and Experience	31	7	2019	20
2	Anand Anshu S., Shyamasundar R. K., Peri Sathya	STMs in Practice: Partial Rollback vs Pure Abort Mechanisms	Concurrency and Computation: Practice and Experience	31	5	2019	14

Average Impact Factor: 1.447, Concurrency and Computation: Practice and Experience

Conferences attended outside IIIT Allahabad:

26th IEEE International Conference on High Performance Computing, Data, and Analytics, HiPC 2019, Organizing institution/society: IEEE, 17-20th December, Attendee, Hyderabad, Telangana.



Dr. Manish Goswami

Department : Electronics & Communication Engineering
Designation : Associate Professor

Total Experience (in years) :
 Teaching/Research: 18 Years

Research papers published in journals:

S. No.	Author(s)	Title of the Article	Journal	Year
1	RK Jha, P Singh, U Kashniyal, M Goswami, BR Singh	Impact of HfO ₂ buffer layer on the electrical characteristics of ferroelectric/high-k gate stack for nonvolatile memory applications	Applied Physics A	2020
2	P Singh, RK Jha, M Goswami, BR Singh	Integration of perovskite Pb [Zr _{0.35} Ti _{0.65}] O ₃ /HfO ₂ ferroelectric-dielectric composite film on Si substrate	Microelectronics International	2020
3	RK Jha, P Singh, M Goswami, BR Singh	Comparative Study on Structural and Electrical Characteristics of TiO ₂ Film Deposited by Plasma-Enhanced Atomic Layer Deposition and RF Sputtering	Advances in VLSI, Communication, and Signal Processing	2020

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

S. No.	Author(s)	Title of the Article	Conference Title	Date-Month-Year	Pages
1	Jitendra Kumar Mishra, Prasanna Kumar Misra, Manish Goswami	A Low Power 7T SRAM cell using Supply Feedback Technique at 28nm CMOS Technology	7th International Conference on Signal Processing and Integrated circuits	Feb 2020	597-602
2	Dhirendra Kumar, Rahul Anand and Manish Goswami	A 138 Mbps Jitter Based Power Efficient True Random Number Generator	19 th International Conference on Electronics, Information, and Communication ICEIC-2020	Jan 2020	

Conferences attended outside IIIT Allahabad: 19th International Conference on Electronics, Information, and Communication ICEIC-2020, Spain - as Author

Work done in project undertaken in the Institute:

- Working towards SMDPC2SD Project of Meity, GOI
 - Working towards ICPS Project of DST, GOI.
- Training Programmes organized: Summer Training program on VLSI Design-2019



Dr. Neetesh Purohit

Department : Electronics & Communication Engineering
Designation : Associate Professor

Total Experience (in years) :
Teaching/Research: 17 Years

Research papers published in journals :

- N. Verma, P. Mishra and N. Purohit, "Development of a Knowledge-Based Decision Tree Classifier Using Hybrid Polarimetric SAR Observables", International Journal of Remote Sensing, year 2020. Vol 41:4, 1302-1320, DOI: 10.1080/01431161.2019.1666314
- Abhishek Kumar, Suneel Yadav, Neetesh Purohit, "Exploiting Coefficient Symmetry in Conventional Polyphase FIR Filters, IEEE Access Journal, vol. 7, pp. 162883-162897, Year 2019.

Average Impact Factor :

- International Journal of Remote Sensing: 2.97
- IEEE Access: 3.745

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

- Abhishek Kumar, Suneel Yadav and Neetesh Purohit, 'Generalized Polyphase Multistep FIR Structures: Modular Realization of Polyphase Filters', IEEE International Conference on Signal Processing and Integrated Networks (SPIN) Noida India, Feb 27-28, 2020
- Abhishek Kumar, Suneel Yadav and Neetesh Purohit, 'FIR Filter Realization Under the Trade-Off Between Implementation Complexity and Computation Rate', IEEE International Conference on Information and Communication Technology CICT2019 IIITA, Prayagraj, Dec 6-8, 2019
- Neha Jaiswal and Neetesh Purohit, 'Performance Evaluation of Non-orthogonal Multiple Access in V2V communications Over Double-Rayleigh Fading Channels', IEEE International Conference on Information and Communication Technology CICT2019 IIITA, Prayagraj, Dec 6-8, 2019
- N. Verma, P. Mishra, N. Purohit, "Effect of Surface Roughness Parameter on Soil Moisture of Wheat Field in Growing Stage: An application of Sentinel-1 SAR Data," IGARSS 2019 IEEE International Geoscience and Remote Sensing Symposium, Japan, July 28-Aug 2, 2019

Seminars and invited talks presented :

- 'Ways of Promoting Government's ICT utilities by NSS', Training Programme for NSS Program Officers, Empanelled Training Institute (ETI), V B S Purvanchal University, Jaunpur, Feb 11-17, 2020.
- 'The Stochastic Processes', A TEQUIP Seminar at Veer Bahadur Singh Purvanchal University, Jaunpur, UP, Feb 13, 2020
- 'Antenna Design for Mobile Phones', National Workshop on Modeling and Simulation on Microstrip Antenna, Circuits And Materials (MASMACAM), Dr. RML Avadh University, Ayodhya, 27 January to 02 February 2020. (Chief Guest valedictory ceremony)

- 'Latest Innovations in Wireless Communications', International Conference on recent trends in electrical, electronics and computer science engineering (ICEECS 2020), Veer Bahadur Singh Purvanchal University, Jaunpur, UP, Jan 10-11, 2020
- 'Embrace Science, Technology and Nationalism', Winter School 2019-20, the National Academy of Science India (NASI), January 2-7, 2020
- 'What kind of advantages of Machine Learning from theory might be emphasized for E2E Air Interface (PHY) Design?'
- 'Can the E2E communication system breakthrough Shannon's limit under certain circumstances? If so, what are these application scenarios, and can they direct us to an innovative air interface which can provide us significant benefits over the 5G system?'
- 'Exploring the applications of AI for coding the information-bearing signals',

Introduced above topics while coordinating the round table session in 6th IEEE international conference Engineering and Telecommunication – En&T-2019, Moscow Institute of Physics and Technology (Russia), Moscow, Nov 20-21, 2019

- 'Traditional, Cooperative, Collaborative and Context-based Learning Approaches', Training Programme on Advances in Technology, Pedagogy and Educational Research, Faculty Development Centre (under the scheme of PMMMNMTT, MHRD, Government of India), October 11-25, 2019.
- 'The Cellular network technologies: 5G and Beyond', Self-financed course-cum-workshop on Advancements in Wireless Communications at IIITA, Prayagraj, Sept 27th - 29th, 2019.
- 'Fundamentals of CDMA and OFDMA', Self-financed course-cum-workshop on Advancements in Wireless Communications at IIITA, Prayagraj, Sept 27th - 29th, 2019.
- 'Fundamentals of Wireless Communications', Self-financed course-cum-workshop on Advancements in Wireless Communications at IIITA, Prayagraj, Sept 27th - 29th, 2019.
- 'Understanding the Randomness and its implications in technology developments' Keynote address in the engineers day celebration at SMS College Lucknow, 16th Sept 2019.
- "Physical Layer Security in Wireless Networks", National Workshop on Advances in Wireless and Optical Networks, May 27th-June 1st 2019, MNNIT, Prayagraj.

Conferences attended outside IIIT Allahabad:

- IGARSS 2019 IEEE International Geoscience and Remote Sensing Symposium, Japan, July 28-Aug 2, 2019

Work done in project undertaken in the Institute:

- Principal Co-Investigator of the IIITA-AVIRAL
- Chairman, Center for short term certification Programme
- Principal Investigator, of the consultancy project 'Prototypes Development for Commercial Application(s) of IoT' from Reliance Jio Infocom Pvt. Ltd. Mumbai (under Ph.D. for Working Professionals Programme)
- Co-Investigator of Design Innovation Center (DIC) spoke of IIT-BHU hub

Training programmes organized:

- Member organizing committee (IIITA Representative), Jointly organized conference with MIPT Moscow Russia, IEEE International Conference on Engineering and Telecommunication (En&T 2019), at Moscow Russia, Nov 20-21, 2019



- Session Chair, VCAS 2019, Springer International Conference on VLSI, Communications and Signal Processing, MNNIT Allahabad, Prayagraj, Oct 21-23, 2019.
- Coordinator and Main Teacher, Self Finance course-cum-workshop on Advanced Wireless Communications, IIITA, Prayagraj, Sept 27-29, 2019.
- Chair of the committee for Ph.D. Symposium at 3rd IEEE conference on Information and Communication Technology CICT 2019, IIITA, Prayagraj, Dec 06-08, 2019.
- Chair of the Track on, 'Wireless Communications and Internet of Things', 3rd IEEE conference on Information and Communication Technology CICT 2019, IIITA, Prayagraj, Dec 06-08, 2019.
- Chair of the Track on 'Hardware for secure information processing', 5th IEEE International Symposium on Smart Electronic Systems (IEEE-iSES, formerly IEEE-iNIS), NIT Rourkela, 16-18 Dec 2019.
- Chair of the Track on Signal Processing, VCAS 2019, Springer International Conference on VLSI, Communications and Signal Processing, MNNIT Allahabad, Prayagraj, Oct 21-23, 2019.
- 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.
- Member of the Steering Committee, 'Conference on Information and Communication Technology' (CICT), annually organized by all Centrally Funded IIITs.

Other Activities:

- (a) Technology Developed
E2E Communication system model
- (b) Software Developed
CROPAPP, Improvements in AVIRAL, FINAPP, ROJAPP
- (c) Industry visited and visits to other Institutes for research
Exsensor Pvt. Ltd. Bhopal
Annadatta Mahatta Infotech Pvt. Ltd. Indore
- (e) 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)

Any other important activity not specified above.

- Associate Dean (Research and Development)
- Member of Academic Ethics Cell IIT Kanpur
- Member of the Technical Committee of CCMT2019
- Coordinator CCMT-COAP Coordination Committee
- Establishing and operating the CSAB2019 Reporting Centre and Help Centre at Lucknow as Centre Incharge
- Centre Incharge CCMT2019 RC at IIITA
- Member, Committee for International Affairs
- Member, IIITA Academic Recruitment Cell (IARC)
- President of IIITA Employee Welfare Society (IEWS)



Dr. Rajat Kumar Singh

Department : Electronics & Communication Engineering
Designation : Associate Professor & HoD

Total Experience (in years) :

Teaching/Research: 14 Years

Research papers published in journals:

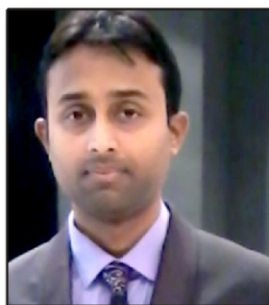
- i. Manoj Tolani, Sunny Sharma and Rajat Kumar Singh, "Energy Efficient Adaptive Bit-Map-Assisted Medium Access Control Protocol," *Wireless Pers Commun*, (Springer) (2019) 108:1595-1610.
- ii. Manoj Tolani, Sunny Sharma and Rajat Kumar Singh, "Lifetime Improvement of Wireless Sensor Network by Information Sensitive Aggregation Method for Railway Condition Monitoring," *Ad Hoc Networks* (Elsevier), Vol.87, pp.128-145, May, 2019.
- iii. Soumit Samaddar Chaudhury, Seema Awasthi and Rajat Kumar Singh, "Dual-mode bandpass filter based on substrate-integrated waveguide loaded with complementary split ring resonators," *Microw Opt Technol Lett.* (Wiley), Vol.60, No.11, pp.2639-2642, May, 2019.

Average Impact Factor: approx. 2 (24 Journals) IEEE, Elsevier, Springer, Taylor & Francis, Wiley

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

- i. Akhilesh Panchal, Lakshman Singh and Rajat Kumar Singh, "RCH-LEACH: Residual Energy based Cluster Head Selection in LEACH for Wireless Sensor Networks," *IEEE ICE3 2020*, Gorakhpur, India, Feb, 2020.
- ii. Soumit Samaddar Chaudhury, Seema Awasthi and Rajat Kumar Singh, "Independent Control over Resonating Modes of Mushroom Resonator loaded Substrate Integrated Waveguide using perturbation slots," *IEEE InCAP 2019*, Ahmedabad, India, Dec, 2019.
- iii. Ankur Gupta, Harshit Anand, Ankit Singh, Rajat Kumar Singh and Akhilesh Tiwari, "Photonic Crystal Fiber based Surface Plasmon Resonance Bio- Sensors with bimetallic selectively filled metal layers," *IEEE WRAP 2019*, Guwahati, India, Dec, 2019.
- iv. Akhilesh Panchal and Rajat Kumar Singh, "REHR: Residual Energy based Hybrid Routing Protocol for Wireless Sensor Networks," *IEEE CICT 2019*, Prayagraj, India, Dec, 2019.
- v. Soumit Samaddar Chaudhury, Seema Awasthi and Rajat Kumar Singh, "Tuning of Passbands in Compact Substrate Integrated Waveguide Bandpass Filter using perturbation slot," *IEEE CICT 2019*, Prayagraj, India, Dec, 2019.

Other Activities: Organized the Conference IEEE CICT 2019 in Dec'19



Dr. Sitangshu Bhattacharya

Department : Electronics & Communication Engineering
Designation : Assistant Professor

Total Experience (in years) :
 Teaching/Research: 07 Years

New courses developed:

- Title: Applied mathematics, Physics of nanoscale devices

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	Year	Page
1	Himani Mishra and Sitangshu Bhattacharya	Giant exciton-phonon coupling and zero-point renormalization in hexagonal monolayer boron nitride	Physical Review B	99	2019	165201(1)
2	Himani Mishra and Sitangshu Bhattacharya	Exciton-driven giant non-linear overtone signals from buckled hexagonal monolayer GaAs	Physical Review B	101	2020	155132(1)

Work done in project undertaken in the Institute:

- "Ab-initio linear and non-linear ultrafast spectroscopy in two-dimensional nitrogen based binary buckled group V semiconductors", Indo-Czech International Bilateral Project 2020-2023 Funding ~ 1.2 Crores



Dr. Prasanna Kumar Misra

Department : Electronics & Communication Engineering
Designation : Assistant Professor

Total Experience (in years) : 6 Years and 8 months

Teaching/Research: 6 years Industry: 8 months

New courses developed:

- Title: Low Power System Design
- Course number: ELPD630E

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Page
1	Jitendra Kumar Mishra, Harshit Srivastava, Prasanna Kumar Misra, Manish Goswami	Analytical modelling and design of 9T SRAM cell with leakage control technique	Analog Integrated Circuits and Signal Processing	101	1	2019	31-43

Average Impact Factor: 1.0

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

S. No.	Author(s)	Article Title	Conference Title	Paper No	Date-Month-Year	Page
1	Jitendra Kumar Mishra, Prasanna Kumar Misra, Manish Goswami	A Low Power 7T SRAM cell using Supply Feedback Technique at 28nm CMOS Technology	7th International Conference on Signal Processing and Integrated Networks (SPIN)	SPIN2020	Feb 2020	597-602

Seminars and invited talks presented:

- Title: State of the art Design Techniques for Flexible and RF Printed Electronics, organized by SRM University, dated on 12.10.2019.

Training programmes organized:

- Summer Training Program on VLSI Design

Other Activities:

- Technology Developed Transceiver Chip (Soft IP)



Dr. Rekha Verma

Department : Electronics & Communication Engineering
Designation : Assistant Professor

Total Experience (in years) :
Teaching/Research: 05 years 8 months

New courses developed:

- Fundamentals of Nanoscale Devices for M.Tech. (ECE)

Conferences attended outside IIIT Allahabad:

- 38th International Conference on thermoelectrics and 4th Asian Conference on Thermoelectrics
Venue and dates: Gyeongju, Korea, June 30-July 4, 2019.

Type of participations: Contributed paper

Title of the paper: "Ab-initio Study of Lattice Anharmonicity in Bulk Lonsdaleite: Hexagonal Diamond".

- 20th International Workshop on The Physics of Semiconductor Devices (IWPSD-2019)

Venue and dates: S. N. Bose National Centre for Basic Sciences, Kolkata, India, December 17-20, 2019.

Type of participations: Contributed paper

Title of the paper: First Principles Based Exploration of Transport Properties of Monolayer Germanene"

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- July 2019), Grant sanctioned: INR, 21,09,800.00, 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-July 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 Transition and Joef Stephan Institute, Ljubljana.



Dr. Pooja Mishra

Department : Electronics & Communication Engineering
Designation : Assistant Professor

Total Experience (in years) :
 Teaching/Research: 06 years

New courses developed: 02

Microwave Circuits: EMWC630E
 SmartAntenna: ESAT730E4

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Vol.	No.	Year	Pages
1	Nidhi Verma, Pooja Mishra and Neetesh Purohit	Development of Knowledge Based Decision Tree Classifier Using Hybrid Polarimetric SAR Observables	International Journal of Remote Sensing and (Taylor and Francis)	41	4	2019	1302-20

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

S. No.	Author(s)	Title of the Article	Conference Title	Paper No	Date-Month-Year
1	N. Verma, P. Mishra, N. Purohit	Effect of surface roughness parameter on soil moisture of wheat field in growing stage: an application of sentinel-1 SAR data	IEEE International Geoscience and Remote Sensing Symposium	DOI: 10.1109/IGARS S.2019.8898651	28 July-2 Aug. 2019
2	Nikhil Mundra, Agam Dwivedi, Ruchin Agrawal, Nidhi Verma and Pooja Mishra	Flood Mapping Using Synergic Use of Optical and SAR Imagery	URSI AP-RASC 2019	DOI:10.23919/URSIAP-RASC.2019.8738567	9-15 March 2019

Average Impact Factor: 4.2

Journals:

- International Journal of Remote Sensing (Taylor and Francis) (IF: 2.976)
- IEEE Transactions on Geoscience and Remote Sensing (IF: 5.855)
- IEEE Geoscience and Remote Sensing Letters (IF: 3.83)
- IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (IF: 3.827)
- Geomatics, Natural Hazards and Risks (IF -3.33)

Seminars and invited talks presented:



- Invited lectures on “Fundamentals of Remote Sensing” and “Applications of Optical & Microwave Remote Sensing” in NRDMS-DST sponsored 21 Days Training Programme on Geospatial Technologies at K. Banerjee Centre of Atmospheric & Ocean Studies, University of Allahabad, Prayagraj on 16th May 2019.
- Invited Lecture on “SAR Polarimetry: Concepts and Applications in Land Cover Monitoring”, in 7-days workshop on "Satellite Image Analysis for Contemporary Applications: Hands on with ENVI and Matlab" in IIIT Allahabad during 22-28 April 2019.

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. Suneel Yadav

Department : Electronics & Communication Engineering
Designation : Assistant Professor

Total Experience (in years) :

Teaching/Research: 5 Years 3 Months Industry: 04 Months

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Page
1	Abhishek Kumar, Suneel Yadav, and Neetesh Purohit	Exploiting Coefficient Symmetry in Conventional Polyphase FIR Filters	IEEE Access	7		2019	162883-162897
2	Anshul Pandey and Suneel Yadav	Physical Layer Security in Cooperative AF Relay Networks Over Mixed Nakagami-m and Double Nakagami-m Fading Channels: Performance Evaluation and Optimization	IET Communications	14	1	2020	95 - 104
3	Mahendra Kumar Shukla, Suneel Yadav, and Neetesh Purohit	Performance Analysis of Full-Duplex Cellular Two-Way Relay Networks With the Nth Worst Relay Selection Under Channel Estimation Error and Co-Channel Interference	Transactions on Emerging Telecommunications Technologies	30	12	2019	e3672

Average Impact Factor:

- IEEE Access: 3.754
- IET Communications: 1.779
- Transactions on Emerging Telecommunications Technologies: 1.594

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

S. No.	Author(s)	Article Title	Conference Title	Paper No	Date-Month-Year
1	Nandkishor Joshi, Suneel Yadav, and S.C. Sharma	Experimental Validation of SISO, SIMO, MISO, and MIMO Techniques using C-700 Software Defined Radio Platform	International Conference on Computing, Power, and Communication Technologies	IEEE	September 2019
2	Anshul Pandey and Suneel Yadav	On the Secrecy Performance of Cooperative Cognitive Vehicular Relay Networks	IEEE International Conference on Advanced Networks and Telecommunications Systems	IEEE	December 2019
3	Abhishek Kumar, Suneel Yadav, and Neetesh Purohit	FIR Filter Realization Under the Trade-Off Between Implementation Complexity and Computation Rate	IEEE Conference on Information and Communication Technology	IEEE	December 2019
4	Anshul Pandey and Suneel Yadav	Physical Layer Security in Intervehicular Cognitive Relaying Communication Systems	IEEE Conference on Information and Communication Technology	IEEE	December 2019
5	Abhishek Kumar, Suneel Yadav, and Neetesh Purohit	Generalized Polyphase Multistep FIR Structures: Modular Realization of Polyphase Filters	IEEE International Conference on Signal Processing and Integrated Networks	IEEE	February 2020

Seminars and invited talks presented:

Title: Mathematical Modeling and Simulation of Cooperative Relaying Systems

Organization: IIIT Allahabad

Date: 27th-29th, September 2019

Conferences attended outside IIIT Allahabad:

- IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE ANTS), IEEE, 16th-19th December, 2019, contributor paper presentation.

Training programmes organized:

- Organized Product Hackathon under DIC Project from 09th-10th February, 2020 at IIIT Allahabad.
- Organized one day DIC SPOKE Meet with spoke partners (MNNIT Allahabad and University of Allahabad) on 7th February, 2020 at MNNIT Allahabad.
- Organized a Workshop on OpenCV and Image Processing Using Python under DIC Project from 01st-02nd, February, 2020.
- Organized Dronathon Workshop from 04th-06th November, 2019, at IIIT Allahabad.
- Organized Prototype 2.0 Hackathon under DIC project from 11th-13th October, 2019, at IIIT Allahabad.

Other Activities:

- Technology Developed
 - Drippy
 - Spraying Drone for Smart Agriculture



Dr. Sunny

Department : Electronics & Communication Engineering
Designation : Assistant Professor

Total Experience (in years) :

Teaching/Research: 5 Years

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Vol/No.	Year (Acceptance)	Page
1.	Beniwal Ajay, Lalwani Suraj, Sunny*	Baseline drift improvement through investigating a novel Ag doped SnO ₂ /ZnO nanocomposite for selective ethanol detection	IEEE Transaction on Nanotechnology	18	April 2019	412-420
2.	Srivastava Vibhu, Tolani Manoj, Sunny*	Investigations on Optical Behavior of Crystalline-Ge ₂ Sb ₂ Te ₅ for Photo-Detection Application in Near Infra-Red Region	Superlattices and Microstructures	130	April 2019	1-11
3.	Tolani Manoj, Sunny, Singh R. K.	Lifetime improvement of wireless sensor network by information sensitive aggregation method for railway condition monitoring	Ad Hoc Networks	87	May 2019	128-145
4.	Tolani Manoj, Sunny, Singh R. K.	Energy Efficient Adaptive Bit-Map-Assisted Medium Access Control Protocol	Wireless Personal Communications	108,	May 2019	1595–1610
5.	Beniwal Ajay, Sunny*	Electrospun SnO ₂ /PPy nanocomposite for ultra-low ammonia concentration detection at room temperature	Sensors & Actuators: B. Chemical	296	June 2019	126660
6.	Srivastava Vibhu, Mishra Prateek, Sunny*	Impulse Response Studies of Ge ₂ Sb ₂ Te ₅ based Ultrafast Photodetector Integrated with SOI Waveguide	Chinese Optics Letters	17 / 10	June 2019	100401



7.	Beniwal Ajay, Sunny*	Novel TPU/Fe ₂ O ₃ and TPU/Fe ₂ O ₃ /PPy nanocomposites synthesized using electrospun nanofibers investigated for analyte sensing applications at room temperature	Sensors & Actuators: B. Chemical	304	Nov.2019	127384
8.	Debnath Ajit, Srivastava Vibhu, Sunny*, Singh Sanjai,	Fabrication and characterization of Metal-Ferroelectric-Semiconductor Non-Volatile Memory using BaTiO ₃ film prepared through sol-gel process	Applied Physics A	126	Nov. 2020	
9.	Srivastava Vibhu, Mishra Prateek, Sunny*	Fabrication of highly responsive phase change Ge ₂ Sb ₂ Te ₅ photodetector for visible region	Indian Journal of Physics		Dec. 2020	
10.	Mirgender Kumar, Sunny, Anuj Kumar, Kwang-Su Seong, Si-Hyun Park	GaN Phosphors Converted White Light Emitting Diodes for High Luminous Efficacy and Improved Thermal Stability	IET Optoelectronics		Jan. 2020	
11.	Mishra Prateek, Srivastava Vibhu, Kumar Mirgender, Sunny	All-Dielectric Metasurface-Enabled Near-Infrared Switching Based on Ge ₂ Sb ₂ Te ₅ Phase-Change Material	Journal of Electronic Materials	49	March 2020	3913–3919

Average Impact Factor: 2.91

- Sensors & Actuators: B. Chemical (Impact Factor – 7.1)
- Ad Hoc Networks (Impact Factor – 3.643)
- IEEE Transaction on Nanotechnology (Impact Factor – 2.196)
- Superlattices and Microstructures (Impact Factor – 2.12)

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

S. No.	Author(s)	Article Title	Conference Title	Date-Month-Year
1.	Bajpai Tulika, Srivastava Vibhu, Sunny*	Light Matter Interaction of Ge ₂ Sb ₂ Te ₅ on Different Substrate Platforms for Photo-detection Application	IEEE International Conference on Sensors and Nanotechnology (Sensors and Nano 2019)	24-25, July 2019
2.	Beniwal Ajay, Sunny*	UV Treated Sol-gel Synthesized SnO ₂ -Polypyrrole Sensor for Ultra-low Ammonia Detection at RT	IEEE SENSORS 2019, (18th IEEE Conference on Sensors)	27-30 October, 2019
3.	Beniwal Ajay, Sunny*	Surfactant Modified Spin Coated NiO Sensor for Low Concentration Ethanol Detection	IEEE SENSORS 2019, (18th IEEE Conference on Sensors)	27-30 October, 2019
4.	Mishra Prateek, Srivastava Vibhu, Sunny	Effect of Sputtering Process Parameters on Optical and Dielectric Properties of Thin Film Indium Selenide	2019 IEEE 16th India Council International Conference (INDICON)	13-15 December, 2019

Seminars and invited talks presented:

- Title : MOSFET-Scaling
Organization : IIIT Allahabad
Date : 17th June, 2019
- Title: Fabrication of low cost thin film devices and challenges in flexible electronics
Organization : IIIT Allahabad
Date : 18th June, 2019

Work done in project undertaken in the Institute:

- Title: Investigations on Chalcogenide Photodetectors (DST Project)
About 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-photonics system interfaces, integrated optical circuits and for low cost tunable photodetectors.

Work Done:

- Design, Simulation and Fabrication of chalcogenide material based photodetectors
- Improved efficiency of photodetectors fabricated with chalcogenide materials with optimized geometry and different substrates
- Improved/enhanced photoluminescence of the photodetectors for the indented wavelength region
- Optimizing the responsivity of the photodetectors using various methods by varying thickness
- Title: Investigations on Conducting Polymer based Gas Sensors for Industrial Applications (Institute Seed Money Project)

About 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.

Work Done

- Ultra-sensitive, highly selective and fast responsive sensors working at room temperature (RT) have been developed for detecting extreme low concentrations of target analytes viz. ammonia (NH_3) and ethanol ($\text{C}_2\text{H}_5\text{OH}$) using metal oxides, conducting polymers and their nanocomposites.
- Metal oxide and conducting polymer embellished electrospun nanofibers based analyte sensors have been successfully developed for ethanol and ammonia detection applications.
- Highly selective and sensitive O_2 plasma treated sputtered SnO_2 thin film sensor has been developed for sub-ppm level NH_3 detection at room temperature.
- A sensor has been developed for monitoring the apple fruit quality via detecting the ethylene (C_2H_4) gas efflux at room temperature using sol-gel spin coated Ni-SnO_2 thin film sensor.



Training programmes organized:

- Title: One month research Internship conducted for external UG students under Institute MoU.

Six (6) external students from Alva's Institute of Engineering and Technology, Mangalore, Karnataka, joined VLSI Fabrication Lab under my supervision for completing their summer internship cum project. Students were divided into 3 groups and each group is assigned with an individual project. Two groups have fabricated micro-sensors for different gas sensing applications. Another group has completed the design and fabrication of heterostructure junction.

Date of Event: 10 July, 2019 to 10 August, 2019

Other Activities:

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

- Institute Name - Visited IIITDM Kancheepuram

Date: 09 November 2019

Purpose: For attending Industry Conclave



Dr. Kavindra Kandpal

Department : Electronics & Communication Engineering
Designation : Assistant Professor

Total Experience (in years) :
 Teaching/Research: 7 Years

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Pagination
1.	Garg, Vaibhav and Kandpal, Kavindra	Design of DQPSK Demodulator for Implantable Biomedical Devices	Journal of Circuits, Systems and Computers	29	11	2020	Not available
2.	Kandpal, Kavindra and Gupta, Navneet and Singh, Jitendra and Shekhar, Chandra	On the Threshold Voltage and Performance of ZnO-Based Thin - Film Transistors with a ZrO ₂ Gate Dielectric	Journal of Electronic Materials	49	5	2020	3156-3164

Average Impact Factor: 1.75



Dr. Amar Nath Yadav

Department : Electronics & Communication Engineering
Designation : Assistant Professor

Total Experience (in years) :
 Teaching/Research: 06 Years



Dr. Prithish Kumar Varadwaj

Department : Applied Science
Designation : Associate Professor & HoD

Experience (in years) :
Teaching/Research: 16 Years

Research papers published in journals:

- Singh, V., Basu, A., Shivapriya, P., Varadwaj, P. K., Samanta, S. K., & Sahoo, A. K. (2019). Exploration of interactions of "blood-nano interface" of carbon-based nanomaterials for biomedical applications. *Journal of Materials Research*, 34(11), 1950–1964.(I.F. 3.2)
- Aier, I., & Varadwaj, P. K. (2019). Understanding the Mechanism of Cell Death in Gemcitabine Resistant Pancreatic Ductal Adenocarcinoma: A Systems Biology Approach. *Current Genomics*, 20(7), 483–490.(I.F. 2.630)
- Roy, N., Raj, U., Rai, S., & Varadwaj, P. K. (2019). Deciphering the Novel Target Genes Involved in the Epigenetics of Hepatocellular Carcinoma Using Graph Theory Approach. *Current Genomics*, 20(8), 545–555.(I.F. 2.630)
- Aier, I., Semwal, R., Dhara, A., Sen, N., & Varadwaj, P. K. (2019). An integrated epigenome and transcriptome analysis identifies PAX2 as a master regulator of drug resistance in high grade pancreatic ductal adenocarcinoma. *PloS One*, 14(10).(I.F. 2.77)
- Yadav, T. C., Agarwal, V., Srivastava, A. K., Raghuwanshi, N., Varadwaj, P., Prasad, R., & Pruthi, V. (2019). Insight into Structure-Function Relationships of α -Lactamase and BLIPs Interface Plasticity using Protein-Protein Interactions. *Current Pharmaceutical Design*, 25(31), 3378–3389.(I.F. 2.208)
- Mishra, V. K., Gupta, S., Chand, R., Yadav, P. S., Singh, S. K., Joshi, A. K., & Varadwaj, P. K. (2019). Comparative transcriptomic profiling of High-and Low-grain Zinc and Iron containing Indian wheat genotypes. *Current Plant Biology*, 18, 100105. (IF 2.53)
- Yadav TC, P. V., Kumar N, Raj U, Goel N, Vardawaj PK, Prasad R. (2019). Exploration of interaction mechanism of tyrosol as a potent anti-inflammatory agent. *J BiomolStructDyn.*, 1–16.(I.F. 3.22)
- Aier, I., Semwal, R., Sharma, A., & Varadwaj, P. K. (2019). A systematic assessment of statistics, risk factors, and underlying features involved in pancreatic cancer. *Cancer Epidemiology*, 58, 104–110.(I.F. 2.179)
- Raghuwanshi, N., Yadav, T. C., Srivastava, A. K., Raj, U., Varadwaj, P., & Pruthi, V. (2019). Structure-based drug designing and identification of *Woodfordia fruticosa* inhibitors targeted against heat shock protein (HSP70-1) as suppressor for Imiquimod-induced psoriasis like skin inflammation in mice model. *Materials Science and Engineering: C*, 95, 57–71.(I.F. 5.88)
- Kumar, A., Mehta, V., Raj, U., Varadwaj, P. K., Udayabanu, M., Yennamalli, R. M., & Singh, T. R. (2019). Computational and in-vitro validation of natural molecules as potential Acetylcholinesterase inhibitors and neuroprotective agents. *Current Alzheimer Research*, 16(2), 116–127.(I.F. 3.22)

- Sharma, A., Kumar, R., Aier, I., Semwal, R., Tyagi, P., & Varadwaj, P. (2019). Sense of smell: Structural, functional, mechanistic advancements and challenges in human olfactory research. *Current Neuropharmacology*, 17(9), 891–911. (I.F. 4.668)
- Kumar, N., Gupta, S., Chand Yadav, T., Pruthi, V., Kumar Varadwaj, P., & Goel, N. (2019). Extrapolation of phenolic compounds as multi-target agents against cancer and inflammation. *Journal of Biomolecular Structure and Dynamics*, 37(9), 2355–2369 (I.F. 3.22)

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

- Semwal, R., Aier, I., Varadwaj, P. K., & Antsiperov, S. (2019). PROcket, an Efficient Algorithm to Predict Protein Ligand Binding Site. In *International Work-Conference on Bioinformatics and Biomedical Engineering* (pp. 453–461). Springer, Cham.

Seminars and invited talks presented:

- En&T 2019 at Moscow as Invited Guest Speaker

Conferences attended outside IIIT Allahabad:

- En&T 2019 at Moscow as Invited Guest Speaker, 20-21 November 2019

Work done in project undertaken in the Institute:

- HEMAT: Hindi to English Machine Translation from MeTy 2017-2019
- Popularizing the benefits of Information and Communication Technology ICT among the farmers and rural population

Training programmes organized:

- Workshop on Virtual Screening - 13-15th March 2019

Other Activities:

Tools developed:

- DeEPn
Deep Learning based enzyme functional annotation.
- DeepOlf
Deep neural network based architecture for predicting odorants and their interacting Olfactory Receptors.
- HAMP
3D-KnowledgeBase of Human Microbiome Antimicrobial Peptide.
- HumDLoc
Human Protein Subcellular Localization Prediction Using Deep Neural Network.
- Pr[m]
An Algorithm for Protein Motif Discovery.

Tools Developed are hosted at <https://bioserver.iiita.ac.in/>



Dr. Akhilesh Tiwari

Department : Applied Science
Designation : Associate Professor

Experience (in years) :

Teaching/Research: 21 years

Industry: 01 year

Books and book-chapters published:

S. No.	Author(s)	Book Title	Publisher	Year	Place	Page
1	Singh Ankit, Gupta Ankur, Tiwari Akhilesh and Kumar Pramod	Recent Advances & Innovations in Physics Teaching & Research	LAP Lambert Academic Publishing, Germany, 2020, ISBN: 978-620-0-78765-1	2020	Germany	05-09 (Chapter 2)
2.	Tiwari Akhilesh and Kumar Pramod	Recent Advances & Innovations in Physics Teaching & Research	LAP Lambert Academic Publishing, Germany, 2020, ISBN: 978-620-0-78765-1	2020	Germany	Books Editors

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	Year	Page
1.	ManojJohri, Akhilesh Tiwari, SaumyaSaxena, Sanjeev Johri,Dinesh Kumar, and DharmendraPratap Singh	Study of the dielectric response and thermo-dynamical properties of PentylCyano Biphenyl (PCB) Liquid Crystal using microwave cavity spectrometer as a probe	Measurement	166	2020	108156

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

S. No.	Author(s)	Article Title	Conference Title	Paper No	Date-Month-Year	Page
1.	Gupta Ankur, AnandHarpreet, Singh Ankit, Singh Rajat Kumar and Tiwari Akhilesh	"Photonic Crystal Fiber based Surface Plasmon Resonance Bio- Sensors with bimetallic selectively filled metal layers,	2019 Workshop on Recent Advances in Photonics (WRAP), Guwahati, India, 2019	SP93	(DOI:10.1109/WRAP47485.2019.9013679)	1-3

Seminars and invited talks presented:

- National Workshop on Biotechnological Approaches for Industrial Waste Management and Renewable Energy (IWMRE-2019)

Organization: Motilal Nehru National Institute of Technology (MNNIT) Allahabad, India

Date: April 1-7, 2019

Training programmes organized:

- Organized by 'IIITA-IAPT Anveshika' on Experimental Physics pre-university workshop for the students of Kendriya Vidyalaya Jhalwa, Prayagraj from 26-27 April 2019 at IIIT Allahabad.
- Organized by 'IIITA-IAPT Anveshika' on Experimental Physics pre-university workshop and visit IIITA-IAPT Anveshika Lab for the students of 'Jila Vigyan Kendra', Kaushambi District, Science & Technology Council, UP, on 31-01-2020 at IIIT Allahabad.



Dr. Pramod Kumar

Department : Applied Science
Designation : Associate Professor

Experience (in years) :
 Teaching/Research: 18 years

Books and book-chapters published:

S. No.	Author(s)	Title of the Book/Chapter	Publisher	Place and Year	Pages	ISBN
1	Dr. A. Tiwari and Dr. P. Kumar	Recent Advances and Innovations in Physics & Teaching	LAP Lambert Academic Publication, Germany	Germany, 2020		978-620-0-78765-1
2	R.Sing, F. Ahamad, S. Sharma, A. Singh, R. Kumar and P. Kumar	Inverse magnetocaloric effect in single crystal of $\text{Ca}_3\text{Ru}_3\text{O}_7$	LAP Lambert Academic Publication, Germany	Germany, 2020	1-4	978-620-0-78765-1
3	A.Singh, A. Gupta, A. Tiwari and P. Kumar	A review on experimental study of one dimensional photonic crystal	LAP Lambert Academic Publication, Germany	Germany, 2020	5-9	978-620-0-78765-1

Research papers published in journals:

S. No.	Author(s)	Title of the Article	Journal	Volume	Year	Page
1	Rashmi Singh, Faizan Ahmad, Kashif Nazeer, Rachana Kumar, Naresh Kumar, Animesh K. Ojha, Sunil Singh Kushvaha & Pramod Kumar	Material Study of Co_2CrAl Heusler Alloy Magnetic Thin Film and $\text{Co}_2\text{CrAl}/\text{n-Si}$ Schottky Junction Device	J. Ele.Mat.,	49	2020	3652–3658

2	Ahmad, Faizan and Singh, Sukhvir and Pundir, Sandeep Kumar and Kumar, Rachana and Kandpal, Kavindra and Kumar, Pramod	Effect of Doping and Annealing on Thermoelectric Properties of Bismuth Telluride Thin Films	J. Ele.Mat.,	49	2020	4195–4202
3	Sanjay Sharma, Faizan Ahamad, Ankit Singh, Akhilesh Kumar Patel, Pramod Kumar	Anomalous Magnetic Properties in $\text{LaFe}_{11.5}\text{Al}_{1.5}$	Phys. Chem. Chem. Phys	22	2020	3425-3433
4	Ankit Singh, Ankur Gupta, Akhilesh Tiwari, Pramod Kumar	Heterogeneous integration of TiO_2 epitaxial growth for one-dimensional photonic crystal: an experimental and theoretical analysis	Materialstoday communications	25	2020	101367
5	Sanjay Sharma, Rashmi Singh, Gyanendra Kumar Maurya, AnkitSingh, FaizanAhmad, AkhileshTiwari, PramodKumar	A comparative study on magnetocaloric effect in NdRu_2Si_2 and NdRu_2Ge_2	Materials Today: Proceedings	28	2020	149

Seminars and invited talks presented:

- Film preparation, characterization and device fabrications using different technique, Summer Training Program on VLSI Design, 2019.
- Hand on experience on DC/RF sputtering, XRD and Hall Effect, Summer Training Program on VLSI Design, 2019.
- Fermi surface reconstruction on moderate magnetic field in $\text{Sr}_4\text{Ru}_3\text{O}_{10}$, Smart Materials for Sustainable Technology (SMST-2020), 22-25 February 2020, Bogmallo Beach Resort, Goa.
- Behavior study of p-n heterojunction of topological insulator Bi_2Te_3 – Si with different contact and annealing conditions, , Smart Materials for Sustainable Technology (SMST-2020), 22-25 February 2020, Bogmallo Beach Resort, Goa.
- Plasmonic waveguide bio-sensor design and its analysis, Smart Materials for Sustainable Technology (SMST-2020), 22-25 February 2020, Bogmallo Beach Resort, Goa.
- A comparative study on magnetocaloric effect in NdRu_2Si_2 and NdRu_2Ge_2 , International conference on advanced materials and nanotechnology (AMN-2020) Noida, India February 20-22, 2020.
- Effect of Substrates & Deposition Temperatures on Structural and Magnetic Properties of Co_2MnSi Deposited by PLD, International Conference on Mechanical, Materials and Renewable Energy (ICMMRE 2019) Sikkim Manipal Institute of Technology Rangpo, India, December 6-7, 2019

Training Programmes organized:

- 34th IAPT Annual Convention 2019 & RAIPTR-2019 at IIIT Allahabad, 15-18 October 2019.



Dr. B. S. Sanjeev

Department : Applied Science
Designation : Assistant Professor

Experience (in years) :
Teaching/Research: 15 years

Research papers published in journals:

S. No.	Author (s)	Article Title	Journal Name	Volume	No.	Year	Page
1	Anand R, Sanjeev BS.	Insights into the effect of molecular crowding on the structure, interactions and functions of siRNA-PAZ complex through molecular dynamics studies	Journal of Biomolecular Structure and Dynamics	37	10	2019	2745-2752

Average Impact Factor: 4.986

Work done in project undertaken in the Institute:

- Project Crimson - An IoT solution to monitor critical infrastructure of Data Centres. The solution created is validated and is being used to monitor Central Computing Facility, IITa.
- GenomeIndia Project: Cataloguing the Genetic Variation in Indians
Part of the national project to study in general the diverse genetic pool of India. This effort is expected to lead to better understanding of genetic diseases and disorders, and enable personalized medicine.



Dr. Amit Prabhakar

Department : Applied Science
Designation : Assistant Professor

Experience (in years) :

Teaching/Research: 8 years, Industry: 1 years, Total: 9 years

New courses developed:

- Biosensors and Transducers
- MEMS and Biomedical Application
- Biomechanics
- Microfluidics: Physics and Application
- Bio-MEMS

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	Year	Page
1.	Prabhakar Amit, Agrawal Mehul, Mishra Neha, Roy Nimisha, Verma Deepti, Jaiswar Ankur, Dhawaj Amar,	Cost-effective Smart Microfluidic Device With Immobilized Silver Nanoparticles and Embedded UV-Light Sources for Synergistic Water Disinfection Effect.	<i>RSC Advances,</i>	10	2020	17479 - 17485
2.	Roy Nimisha, Jyoti Kashyap, Verma Deepti, Tyagi Rakesh K., Prabhakar Amit,	Prototype of a Smart Microfluidic Platform for the Evaluation of SARS-Cov-2 Pathogenesis, along with Estimation of the Effectiveness of Potential Drug candidates and Antigen-Antibody Interactions in Convalescent Plasma Therapy, , (DOI:10.1007/s41403-020-00148-0).	<i>Transactions of the Indian National Academy of Engineering</i>	5	2020	241-250

Average Impact Factor : 3.0, RSC Advances

Training programmes organized:

Short term training program, i.e. Workshop on "Intelligent BioMedical Micro-Electro-Mechanical Systems" of seven days (Proposed Date: April 13 to April 19, 2020, However postponed due to COVID-19 Pandemic).

Other Activities:

(a) Technology Developed

- 1) A Portable Corona-Discharge System with Custom Made Electrodes for PDMS Hydrophilic Treatment & Bonding for Microfluidic Chip Fabrication. [Patent filed]
- 2) Cost-Effective Micro Impedance Pump for Potential Application in the Micro-fluidics & Bio-Medical Domain. [Patent filed]
- 3) Blue EV-low cost custom Electric Bike. [Patent Draft under preparation]



- 4) Advanced Prosthetics using 3D printing and SEMG. [Patent Draft under preparation]
- 5) Preparation of fabric material for Low-cost N95 face-mask, using custom made 3-D Printer [Patent to be filed]
- 6) Sanitization/Sterilization technology based on Corona Discharge based atmospheric Cold Plasma Jet. [Patent filed]
- 7) Sanitization/Sterilization technology based on UV-radiation, coupled with, Metal Nanoparticles [Patent Filed]
- 8) Hand sanitizer based on Low-cost Camphor formulation.
- 9) Automatic sanitizer spray device based on the smart-sensor.
- 10) Low cost, portable blood Oxygenator and Ventilators as Breathing Support System. [Patent to be filed]
- 11) A Smart Microfluidic Platform for the Evaluation of SARS-Cov-2 Pathogenesis, along with Estimation of the Effectiveness of Potential Drug and Antibody Treatment",

(b) Patents

Sl. No.	Title of Filed / Published/ Granted PATENTS.	Patent Application / Publication/ Patent – Number & Corresponding Dates	Awarding Country	Inventors / Authors	Current Status
1	Apparatuses and Methods for Separation of Suspended Particles Present in Liquid	Application Number: 201911019244; Date of Filing: 14-05-2019	Indian	Dr. Amit Prabhakar, Praveen Kumar, Neha Mishra, Ankur Jaiswar, Dr. Deepti Verma,	Filed via "Technology Information, Forecasting and Assessment Council" (TIFAC)
2	Cost effective micro impedance pump for lab on chip applications.	Indian Patent Application Number: 201911039486. Filed on September 30, 2019	Indian	Dr. Amit Prabhakar, Amar Dhawaj	Filed via: - Technology Information, Forecasting and Assessment Council (TIFAC)

(a) Continuing Education Activities

For B.Tech. and M.Tech. students of CSVTU, Bhilai, organizing a Short term training program, i.e. Workshop on "Intelligent BioMedical Micro-Electro-Mechanical Systems" of seven days (Proposed Date: April 13 to April 19, 2020, However postponed due to COVID-19 Pandemic).

(b) Participation in the High Level Industry, Academia Interaction Programme during Summer Programs:

Attended "Orientation cum Training Programme", organized by National Innovation and Startup Policy (NISP) Implementation Team MHRD's Innovation Cell.

Any other important activity not specified above:

***NewGen IEDC Start-up projects:** At present we are pursuing few NewGen IEDC (New Generation Innovation and Entrepreneurship Development Centre) Start-up projects under the aegis of "BioMEMS & Nanotechnology Lab", Dept. of Applied Sciences, IIIT Allahabad. NewGen IEDC is an ambitious programme launched by National Science and Technology Entrepreneurship Development Board (NSTEDB), Department of Science & Technology (DST), Government of India and implemented by EDII, Ahmedabad. This programme aims to inculcate the spirit of innovation and entrepreneurship amongst the young S&T students, encourage and support start-up creation through guidance, mentorship & support. An amount of INR 2.5 lakh is given to each team by NewGen IEDC as financial support.

Currently, four of our projects are in various stages of incubation and product development under this scheme:

- 1) A Portable Corona-Discharge System with Custom Made Electrodes for PDMS Hydrophilic Treatment & Bonding for Microfluidic Chip Fabrication. [Patent filed]
- 2) Cost-Effective Micro Impedance Pump for Potential Application in the Micro-fluidics & Bio-Medical Domain. [Patent filed]
- 3) Blue EV-low cost custom Electric Bike. [Patent Draft under preparation]
- 4) Advanced Prosthetics using 3D printing and SEMG. [Patent Draft under preparation]



Dr. Sangeeta Singh

Department : Applied Science
Designation : Assistant Professor

Experience (in years) :
Teaching/Research: 10 years

Books and book-chapters published:

S. No.	Author(s)	Book Title	Publisher	Year	Place	DOI:
1	Princy Choudhary, Sangeeta Singh and Vishnu Agarwal	Microbial Biofilms : Bacterial Biofilms	IntechOpen	2019	London	10.5772/intechopen.90790

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Page
1.	RichaShukla, Sangeeta Singh, Krishna Misra	Role of Human Gut Microbiota in Health and Disease	Acta Scientific Microbiology	2	9	2019	80-81
2.	PrincyChoudhary, ArpitJaiswal, Saurabh Gupta and Sangeeta Singh	Bacterial Cellulose Based Composites: Preparation and Characterization	Materials ScienceForum	978		2019	183-190

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

S. No.	Author(s)	Article Title	Conference Title	Paper No	Date-Month-Year
1.	Princy Choudhary, Arpit Jaiswal, Sangeeta Singh, Saurabh Kumar Gupta	Advanced wound dressing material derived from bacterial cellulose	BioSangam 2020, "International Conference on Biotechnological Interventions for Societal Development. Organised by MNNIT	BS-HPB_26	21st to 23rd February 2020

Conferences attended outside IIIT Allahabad:

- BioSangam 2020, "International Conference on Biotechnological Interventions for Societal Development" being held at Motilal Nehru National Institute of Technology (MNNIT) Allahabad from 21st to 23rd February 2020. The title of the presentation is Advanced wound dressing material derived from bacterial cellulose.



Dr. Nidhi Mishra

Department : Applied Science
Designation : Assistant Professor

Experience (in years) :
 Teaching/Research: 12 years

Books and book-chapters published:

S. No.	Author(s)	Book Title	Publisher	Year of publication	Place of publication	Pagination (in case of book chapter)
1.	Maurya, Akhilesh Kumar, Anamika Mishra, and Nidhi Mishra	Nanoengineered biomaterials for advanced drug delivery	Elsevier	2020	Netherland	109-143

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Page
1	Singh, Nishtha, Sonal Upadhyay, Ankur Jaiswar, and Nidhi Mishra	In silico Docking Studies and Potential Lead Identification against JNK3 for Alzheimer's Disease	International Journal of Pharmaceutical Investigation	9	4	2019	220-222

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

S. No.	Author(s)	Article Title	Conference Title	Date-Month-Year	Page
1	Maurya, Akhilesh Kumar, Nidhi Mishra	In Silico Study of Coumarin Derivatives Against Enoyl ACP Reductase, Ornithine Acetyltransferase and Protein Kinase B Target Enzymes of Mycobacterium tuberculosis	2019 IEEE 16th India Council International Conference (INDICON)	13-15 Dec. 2019	1-4
2	Mulpuru, Viswajit, Akhilesh Kumar Maurya, and Nidhi Mishra	CFD Analysis of Anticancerous Ag and CuO Nanoparticles in Tumor Angiogenic Vessels	2019 IEEE 16th India Council International Conference (INDICON)	13-15 Dec. 2019	1-2
3	Mishra Anamika, Rajpoot	In silico Drug Targeting of GPR 120 Involved in Obesity and Diabetes Mellitus	International Conference on Recent Advances in Engineering	11-12, January 2020	-



	Sanjeev, Nidhi Mishra		& Science (ICRAES 2020)		
4	Maurya Akhilesh Kumar Nidhi Mishra	Synthesis of Nanocomposite of Hydroxyapatite using Polymer Matrix of "PNIPAM" and its Use in Drug Delivery	International Conference on Recent Advances in Engineering & Science (ICRAES 2020)	11-12, January 2020	-
5	Mulpuru Viswajit, Bharati Dharendra kumar, Mishra Nidhi	Development and Validation of Predictive QSAR Model for Peptides Derived from Marine Microbes and Medicinal Plants for Therapeutics Against Tuberculosis	International Conference on Recent Advances in Engineering & Science (ICRAES 2020)	11-12, January 2020	-

Seminars and invited talks presented:

- Keynote speaker- 2019 The Third International Conference on Biological Information and Biomedical Engineering (BIBE 2019) in Hangzhou, China during July 20-22, 2019. Title-"Polymeric Biomaterials in Drug Delivery"
- Key note speaker- Jacobs conferences: keynote speaker for the "Global meet on Pharmaceutical sciences, Drug Formulation & Delivery" at Venice, Italy during June 19-20, 2019. The main theme of the Conference: "Uncovering the potential of Pharma world".

Conferences attended outside IIIT Allahabad:

- Akhilesh Kumar Maurya, Nidhi Mishra. In Silico Study of coumarin derivatives against PPAR- γ and PTP1- β target proteins of Diabetes type-II. Jacobs conferences "Global meet on Pharmaceutical sciences, Drug Formulation & Delivery" at Venice, Italy during June 19-20, 2019. The main theme of the Conference: "Uncovering the potential of Pharma world".

Work done in project undertaken in the Institute:

- Communicated papers of work done in seed grant project

Other Activities:

(a) Software Developed

- Developed a database: HAMP: A Knowledgebase of Antimicrobial Peptides from Human Microbiome

Any other important activity not specified above:

- Technical program committee member BIBE 2020 2020 The Fourth International Conference on Biological Information and Biomedical Engineering will be changed to online meeting on July 21-23, 2020. Chengdu, China.
- Member, Organizing committee Recent Developments in Advanced Biotechnology



Dr. Abdullah Bin Abu Baker

Department : Applied Science
Designation : Assistant Professor

Experience (in years) :
 Teaching/Research: 7 years

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year
1	Abdullah Bin Abu Baker	Reflexivity of isometries of order n	Colloquium Mathematicum	159	2	2020

Conferences attended outside IIIT Allahabad:

- Conference name: One Day in Operator Theory
 Organized By: Department of Mathematical Sciences, University of Memphis, TN, USA
 Date: February 15, 2020
 Type of participations: Invited speaker
 Talk title: Numerical index of vector-valued function spaces



Dr. Sumit Kumar Upadhyay

Department : Applied Science
Designation : Assistant Professor

Experience (in years) :
Teaching/Research: 05 years 10 months

Books and book-chapters published:

S. No.	Author(s) [Surname, Forename]	Book Title	Publisher	Year of publication	Place of publication	Pagination (in case of book chapter)
1	Raja Sridharan, Sumit Kumar Upadhyay, Sunil K. Yadav	Leavitt Path Algebras and Classical K-Theory	Springer, Singapore 2020	2020	Indian Statistical Institute Book Series, Banglore	261-279

Research papers published in journals:

Sr. No.	Author(s) Name	Title of the Article	Journal	Volume (No)	Year	Page
1	Ramji Lal, Sumit Kumar Upadhyay	Multiplicative Lie algebras and Schur Multiplier	Journal of Pure and Applied Algebra	223 (9)	2019 (September)	3695-3721

Average Impact Factor of all publications and name of the major journal in which publication are made: 0.797, Journal of Pure and Applied Algebra

Other Activities: Visited IISER, Pune during June 07, 2019 - June 21, 2019.



Dr. Ratan Kumar Saha

Department : Applied Science
Designation : Assistant Professor

Experience (in years) :
 Teaching/Research: 13 years

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

S. No.	Author(s)	Article Title	Conference Title	Paper No	Date-Month-Year	Page
1	Warbal P., Pramanik M. and Saha R. K.	<i>A robust modified delay-and-sum algorithm for photoacoustic tomography imaging with apodized transducer</i>	SPIE/OSA European Conferences on Biomedical Optics	11077	24-06-2019	11077013-1-8
2	Kaushik A., Sonker D. and Saha R. K.	<i>Use of angular distribution of differential photoacoustic cross-section data for estimating source size</i>	SPIE/OSA European Conferences on Biomedical Optics	11077	24-06-2019	110770E-1-9
3	Kaushik A., Sonker D. and Saha R. K.	<i>Determining the photoacoustic source size from frequency dependent differential photoacoustic cross-section data</i>	OSA Frontiers in Optics and Laser Science	JTu3A.100	15-9-2020	JTu3A.100
4	Kaushik A., Prakash R. and Saha R. K.	<i>Exploring High Frequency Photoacoustic Method for Characterization of Pathological Red Blood Cells</i>	IEEE Region 10 Conference	1902	17-10-2019	102-105
5	Warbal P., Prakash R., Pramanik M. and Saha R. K.	<i>Wiener filtering for deblurring of reconstructed images in photoacoustic tomography with finite size apodized transducers</i>	IEEE Region 10 Conference	1889	17-10-2019	96-101

Seminars and invited talks presented:

- Title: Modelling of photoacoustic signals from blood under different pathological conditions
 Organization : Aix-Marseille University, Marseille, France
 Date : June 27, 2019
- Title : Modelling of photoacoustic signals from single cell to many cells
 Organization : University of Bordeaux, Bordeaux, France
 Date : July 2, 2019
- Title : Application of photoacoustic technique for malaria detection
 Organization : National Institute of Malaria Research, New Delhi
 Date : October 1, 2019



Conferences attended outside IIIT Allahabad:

- European Conferences on Biomedical Optics, SPIE/OSA, June 24-25, 2019, oral Presentation and poster presentation.

Other Activities:

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

- Aix-Marseille University, Marseille, France, Academic visit.
- University of Bordeaux, Bordeaux, France, Academic visit.
- National Institute of Malaria Research, New Delhi, Academic visit.



Dr. Amaresh Kumar Sahoo

Department : Applied Science
Designation : Assistant Professor

Experience (in years) :
 Teaching/Research: 3.5 years

Books and book-chapters published:

S. No.	Author(s)	Book Title	Publisher	Year	ISBN	Page
1	Verma Arushi, Singh Vishal, Sahoo Amaresh Kumar	Nanotechnology in Skin, Soft Tissue, and Bone Infections. Chapter: <i>Metal Nanoparticle Based Antibacterial Nanocomposites for Skin Infections</i>	Springer	2020	978-3-030-35146-5	25-48

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Page
1	Verma Arushi, Arshad Farwa, Ahmad Kafeel, Goswami Upashi, Samanta Sintu Kumar, Sahoo, Amaresh Kumar and Sk Md Palashuddin	Role of surface charge in enhancing antibacterial activity of fluorescent carbon dots	Nanotechnology	31	9	2019	095101
2.	Gautam Pavan K, Shivapriya Pingali M, Banerjee Sushmita, Sahoo Amaresh K* and Samanta Sintu K*	Biogenic fabrication of iron nano-adsorbents from mixed waste biomass for aqueous phase removal of alizarin red S and tartrazine: Kinetics, isotherm, and thermodynamic investigation	Environmental Progress & Sustainable Energy	39	2	2020	e13326
3.	Singh Anirudh, Gautam Pavan Kumar, Verma Arushi, Singh, Vishal, Shivapriya Pingali M, Shivalkar Saurabh, Sahoo Amaresh Kumar*, and Samanta Sintu Kumar*	Green synthesis of metallic nanoparticles as effective alternatives to treat antibiotics resistant bacterial infections: A review	Biotechnology Reports	25		2020	e00427

Average Impact Factor of all publications and name of the major journal in which publication are made. 1.7 (Nanotechnology)

Seminars and invited talks presented:

Title: Recent Developments in Applied Biotechnology (RDAB-2020)
 Organization: Department of Applied Sciences, IIITA
 Date: 06-08th March, 2020



Dr. Anand Kumar Tiwari

Department : Applied Science
Designation : Assistant Professor

Experience (in years) :
 Teaching/Research: 06/10 years

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Pagination
1.	Tiwari, A.K., Tripathi A., Singh Y, Gupta P.	Doubly semi-equivelar maps on torus and Klein bottle	Journal of Mathematics	2020	-	2020	-

Seminars and invited talks presented:

S. No.	Title	Organization	Date
1	Triangulation of surfaces and its application in engineering	Rajkiya Engineering College, Banda, Utter Pradesh	September 09, 2019
2.	Tiling of non-planar surfaces and its application	Ramswaroop Memorial University, Lucknow, Utter Pradesh	January 30, 2020

Conferences attended outside IIIT Allahabad:

S. No.	Conference Name	Dates	Organizing Institution	Type of Participation
1.	2 nd National Conference on Recent Trends in Mathematics with Applications	January 30-31, 2020	Shree Ramswaroop Memorial University Lucknow, Utter Pradesh	Invited Talk



Dr. Sintu Kumar Samanta

Department : Applied Science
Designation : Assistant Professor

Experience (in years) :
 Teaching/Research: 4/7.5 years

New courses developed:

Title: Engineering Biology
 Course number: SENB630E

Books and book-chapters published:

S. No.	Author(s)	Book Title	Publisher	Year of publication	Place of publication	Pagination (in case of book chapter)
1	Gautam Pavan Kumar, Shivalkar Saurabh, and Samanta Sintu Kumar	Environmentally Benign Synthesis of Nanocatalysts: Recent Advancements and Applications	Springer Nature	2020	Springer Nature Switzerland	pp 1-19

Research papers published in journals:

- Singh V, Basu A, Shivapriya PM, Varadwaj P, Samanta SK*, Sahoo AK*. 2019. Exploration of interactions of 'blood-nano interface' of carbon-based nanomaterials for biomedical applications. Journal of Materials Research, 34(11), 1950-1964. doi:10.1557/jmr.2019.176.
- Gautam PK, Shivapriya PM, Banerjee S, Sahoo AK*, Samanta SK*. 2019. Biogenic fabrication of iron nano-adsorbents from mixed waste biomass for aqueous phase removal of alizarin red S and tartrazine: Kinetics, isotherm, and thermodynamic investigation. Environmental Progress & Sustainable Energy. DOI: 10.1002/ep.13326.
- Verma A, Arshad F, Ahmad K, Goswami U, Samanta SK, Sahoo A* and Palashuddin Md Sk*. 2019. Role of surface charge in enhancing antibacterial activity of fluorescent carbon dots. Nanotechnology, 8;31(9):095101. doi: 10.1088/1361-6528/ab55b8.
- Samanta SK, Biswas P, Banerjee A, Bose A, Siddiqui N, Nambi S, Saini DK and Visweswariah SS*. 2019. A universal stress protein in Mycobacterium smegmatis sequesters the cAMP-regulated lysine acyltransferase and is essential for biofilm formation. Journal of Biological Chemistry, 295(6):1500-1516.
- Singh A, Gautam PK, Verma A, Singh V, ShivaPriya PM, Shivalkar S, Sahoo AK* and Samanta SK*. 2020. Green synthesis of metallic nanoparticles as effective alternatives to treat antibiotics resistant bacterial infections: A review. Biotechnology Reports, 25:e00427. doi: 10.1016/j.btre.2020.e00427.



Average Impact Factor of all publications and name of the major journal in which publication are made: 2.22

Journal of Biological Chemistry (IF: 4.106), Nanotechnology (IF: 3.399), Journal of Materials Research (IF: 2.015), Environmental Progress & Sustainable Energy (IF: 1.596).

Work done in project undertaken in the Institute:

We are currently working in our Institutional sponsored project entitled "Development of a Novel Nanocomposite to Combat the Biofilm Infections". We have standardized the protocol for synthesis of fluorescent C-dots papaya leaf extract by microwave based method. This synthesized C-dots showed characteristics emission at around 430 nm upon excitation at 320 nm (UV-light). These C-dots were further characterized by Transmission Electron Microscopy (TEM), X-ray powder diffraction (XRD), Fourier-transform infrared spectroscopy (FTIR), X-ray photoelectron spectroscopy (XPS) analysis. Through the cell viability assay and FACS analysis, we have investigated their bactericidal efficacy. Further, we have demonstrated their potent role as an antibiofilm agent. We are going to investigate whether these C-dots can be used in wound healing to treat bacterial infections on the surface of our body. We are going to submit a research manuscript to a peer-reviewed journal.

In addition, we have standardized the catalytic synthesis of fluorescent Ag NCs and further characterized by TEM, FTIR, UV-vis, fluorescence, Zeta potential. We have studied their bactericidal effects and currently we are under the investigation of their antibiofilm efficacy.

Training/workshop programmes organized:

Organizer: Dept. of Applied Sciences, IIIT Allahabad

Type: National seminar cum workshop

Title: 'Recent Developments in Applied Biotechnology (RDAB-2020)'

Duration: 06-08th March, 2020.

Role: As one of the Conveners

Other Activities:

Visited MNNIT Allahabad and University of Allahabad for collaborative works.



Dr. Srijit Bhattacharjee

Department : Applied Science
Designation : Assistant Professor

Experience (in years) :
 Teaching/Research: 6 years 5 months

New courses developed: 3 (running) 3 (Electives/Add Ons, yet to be offered)

Title 1: Numerical Methods (jointly with Dr. B. S. Sanjeev); Course number: NM

Title 2: Quantum & Statistical Mechanics: Advanced Methods (PhD course)

Title 3: General Relativity (PhD course)

Title 4, 5, 6: Introduction to Tensor Analysis, Introduction to Non-linear Dynamics,
 Path Integral methods and Applications

Others: Engineering Physics (Redesigning the course in 2018)

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Page
1	Bhattacharjee, Srijit, Bhattacharyya Arpan, Kumar Shailesh	Memory Effect and BMS-like Symmetries for Impulsive Gravitational Waves	Physical Review D	100	8	2019	084010

Average Impact Factor: Physical Review D; IF: 4.375

Seminars and invited talks presented:

Title: Exploring the Nature at Different Scales

Organization: National Academy of Science (NASI)

Date: 08/06/2019

Training programmes organized: Organized a Workshop on Data Science in Astrophysics and Gravitational Wave Research, Nov 1-3, 2019.

Other Activities:

Attended Workshop on Social Media Management and Practices, held on 27th Dec., 2019. Organized by MHRD GoI as social media champion from IIIT Allahabad.



Dr. Savitri Joshi

Department : Applied Science
Designation : Assistant Professor

Experience (in years) :

Teaching/Research: 3 years, Industry: 01 year administrative experience as Statistical Officer, Planning Department, Govt. of Rajasthan

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Page
1	Joshi, Savitri and Rattihalli, R.N.	Estimation of parameters in a general hazard regression change point model	Journal of the Indian Statistical Association	57	1	2019	19-40
2	Bhati, Deepesh and Joshi, Savitri	Weighted Geometric Distribution	Communication in Statistics: Theory and Methods	47	6	2018	1510-1527
3	Joshi, Savitri and Jose, K. K.	Wrapped Lindley Distribution	Communication in Statistics: Theory and Methods	47	5	2018	1013-1021
4	Joshi, Savitri, Jose, K. K. and Bhati, Deepesh	Estimation of a change-point in the hazard rate of Lindley model under right censoring	Communication in Statistics: Simulation and Computation	46	5	2017	3563-3574
5	Sharma, A., Verma, H.K., Joshi, Savitri, Panwar, M. S. and Mandal, C. C.	A link between cold environment and cancer	Tumor Biology	36	8	2015	5953-5964

Average Impact Factor: 1.29875

Citations:

35

h-index:

3

i10- index:

1

S. No.	Author(s)	Article Title	Conference Title	Paper No	Date-Month-Year	Page
1	Joshi, Savitri and Rattihalli, R. N.	Estimation of parameters in the Exponential Lindley hazard change point model	International Conference on Trends in Computational and Cognitive Engineering	Chapter 29	2020 (Springer Nature)	Under press

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

Conferences attended outside IIIT Allahabad:

- Presented a paper entitled "Estimation of parameters in the Exponential Lindley hazard change point model" in International Conference on Trends in Computational and Cognitive Engineering organized by Central University of Haryana during 28-30 November, 2019.

Other Activities:

- Reviewed an article for the international journal "Statistica" in 2019.



Dr. Seema Kushwaha

Department : Applied Science
Designation : Assistant Professor

Experience (in years) :
 Teaching/Research: 3 years

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	Year	Page
1	Kushwaha, S.	Pell Equation: A revisit through periodic F_{2l} -continued fractions	Integers	20	2020	#A9 (1-10)
2	Kushwaha S. and Sarma, R.	Continued fractions arising from $F_{1,3}$	The Ramanujan Journal	46	2018	605-631
3	Sarma, R. and Kushwaha, S.	On finite semi-regular continued fractions	Integers	16	2016	#A45 (1-11)
4	Sarma, R., Kushwaha, S. and Krishnan, R.	Continued fractions arising from $F_{1,2}$	Journal of Number Theory	154	2015	179-200

Average Impact Factor: 0.4, The Ramanujan Journal.



Dr. Madhvendra Misra

Department : Management Studies
Designation : Associate Professor

Experience (in years) :
Teaching/Research: 20 years

Books and book-chapters published:

Sl.	Author(s)	Title of the Book	Chapter	Publisher	Year	Place
1	Yadav, Jitendra & Misra, Madhvendra.	Blockchain Technologies, Applications and Cryptocurrencies: Current Practice and Future Trends	Autonomous Agriculture Marketing Information System Through Blockchain.	World Scientific Publishing	2020	Singapore

Research papers published in journals:

Sl.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Page
1	Singh, Kuldeep & Misra, Madhvendra	Financial determinants of cash holding levels: An analysis of Indian agricultural enterprises.	Agricultural Economics	65	5	2019	240-248
2	Singh, Kuldeep; Misra, Madhvendra; Kumar, Mohit; Tiwari, Vineet	A study on the determinants of financial performance of U.S. agricultural cooperatives.	Journal of Business Economics and Management	20	4	2019	633-647
3	Kumar, Mohit; Singh, Kuldeep; Tewari, Vijaishri; Misra Madhvendra	Achieving business excellence through workplace conflict resolution: using emotional intelligence as an effective tool	International Journal of Business Excellence			2019	
4	Yadav, Jitendra; Misra, Madhvendra; Goundar, Sam.	An overview of food supply chain virtualization and granular traceability using blockchain technology	International Journal of Blockchains And Cryptocurrencies			2019	

Average Impact Factor:

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

Seminars and invited talks presented:

- Resource Person- Invited Lecture on "General contours of e-learning paradigm and way to augment as the same as effective pedagogical intervention." 19th January 2020 at Department of Economics, University of Allahabad.

- Resource Person- Invited Lecture on “General contours of e-learning paradigm and way to augment as the same as effective pedagogical intervention.” 27th August 2019 at University of Allahabad.
- Resource Person- Invited Lecture in “Faculty Development Programme (FDP) on “Development and Analysis of Case Studies” 10-12th April 2019 at Institute of Technology Management, Defence Research and Development Organisation (DRDO), Ministry of Defence, Government of India Landour Cantt, Mussoorie.

Conferences attended outside IIIT Allahabad:

- Minanshu, Madhvendra Misra: “Fitness of neuromarketing as a tool to achieve competitive advantage: a systematic literature review”. International conference on Business Intervention for Effective Management of Technology and Innovation – IIM Shirmaur; 03/2020.
- Jitendra Yadav, Madhvendra Misra: “Exploring the antecedents of fan engagement through digital initiatives on the sports league's brand equity co-creation”. 6th Management Doctoral Colloquium - IIT Kharagpur; 02/2020.
- Kuldeep Singh, Madhvendra Misra: “Proposing a scheme for recognition and reward to unpaid domestic and social welfare activities through CSR”. 6th Management Doctoral Colloquium - IIT Kharagpur; 02/2020.
- Mohit Kumar, Madhvendra Misra: “Introducing customer satisfaction in assessing effectiveness of organizational learning: a case study approach”. 6th Management Doctoral Colloquium - IIT Kharagpur; 02/2020.
- Kunal Sharma, Madhvendra Misra: “Effects of social media on sports branding: a case of IPL”. 5th Global Leadership Research Conference 2020-Amity Business School, Noida, India; 02/2020
- Abhishek Tripathi, Madhvendra Misra: “Metric based approach for determining the effectiveness of social media advertisements”. 4th International Conference on Asian Libraries- IIM Lucknow; 02/2020.
- Shivam Kumar Singh, Madhvendra Misra: “Segmentation of the data for predictive decision making”. 4th International Conference on Asian Libraries- IIM Lucknow; 02/2020.
- Jitendra Yadav, Madhvendra Misra: “Blockchain inclusion to agriculture market information system: a case study of E-NAM adoption in Uttar Pradesh, India”. 7th PAN IIM, World Management Conference, 2018, IIM Rohtak, India; 12/2019.

Other Activities:

- (a) Participation in the High Level Industry, Academia Interaction Programme during Summer Programs
- Participated in Consultation Meet on Development of Assessment Model for Industry 4.0 led Digital Transformation; 23 Jul – 25 Jul 2019, New Delhi, India. Organised by National Productivity Council, New Delhi.

Any other important activity not specified above.

- Faculty Development Program on Machine Learning with Business Applications (With primer on Big Data, AI and Deep Learning) 20-25 May, 2019 organized at Indian Institute of Management Bangalore (IIMB) by Analytics Society of India (ASI) in association with DCAL, IIMB



Dr. Vijaishri Tewari

Department : Management Studies

Designation : Associate Professor & HoD

Experience (in years) :

Teaching/Research: 16 year

Industry: 1 year

New courses developed:

Title: Employer Brand Building

Course number: MD19MEBB3E

Books and book-chapters published:

S. No.	Author(s)	Book Title	Publisher	Year of publication	Place of publication	Pagination (in case of book chapter)
1.	Upadhyay, C. K., Tewari, V., Tiwari, V., & Pandiya, B.	Soft Computing for Problem Solving	Springer	2020	Singapore	8
2.	Upadhyay, C. K., Tewari, V., Tiwari, V., & Pandiya, B.	PAN IIT Proceeding Appulse of Business Analytics in e-commerce industry	PAN IIT	2019	IIT Roorkee, Uttrakhand	-
3.	Shankar, S and Tewari, V	PAN IIT Proceeding - Impact of Collective Cognitive and Emotional Intelligence on Team Psychological Safety	PAN IIT	2019	IIT Roorkee, Uttrakhand	-

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Pagination
1.	B. Pandiya, V. Tewari, C. K. Upadhyay	An empirical assessment of antecedents able to attract the prospective talented workforce for Information Technology Industry across borders	European Journal of International Management, (SSCI)	In Press	In press	2020	-
2.	Dubey, R. S., & Tiwari, V.	Operationalisation of soft skill attributes and determining the existing gap in novice ICT professionals	International Journal of Information Management (SSCI)	50	375-386	2020	-
3.	B. Pandiya, V. Tewari, C. K. Upadhyay	Identifying the antecedents of employer branding for generation Y workforce in Information technology industry	Journal of Business Economics and Management (SSCI)	In press	In press	2020	-
4.	M. Kumar, K. Singh, V. Tewari, and M. Misra	Achieving business excellence through workplace conflict resolution: using Emotional Intelligence (EI) as an effective tool	International Journal of Business Excellence (Inderscience – Scopus)	In press	In press	2020	-

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

S. No.	Author(s)	Article Title	Conference Title	Paper No	Date-Month-Year	Pagination
1.	Upadhyay, C. K., Tewari, V., Tiwari, V.	Uberisation through Crowdsourcing in Rural India: Towards Entrepreneurial & Sustainable Development" 30th EBES	International Conference - Kuala Lumpur.	116	10-Jan-2020	-
2.	Shankar, S and Tewari, V	Consumer Buying Behaviour Based on Determinants of Advertisements of Digital Media: A Study of Semi-Literate Demographics.	National conference and Industry Academia Interface on Managing Sustainable Development, IIIT Allahabad, Prayagraj, India.	8	Feb-2019	-



Seminars and invited talks presented:

- Invited for a Guest Lecture in Faculty Development Programme at Shambhunath Institute of Engineering and Technology, Prayagraj (Allahabad), 2019
- Delivered talk in 2nd Workshop on Behavioral finance topic 'Investment Psychology' in IIITA, 2019
- Invited for a Guest Lecture in Workshop on Work Life Balance at DRDO at Mussoorie, 2019.

Any other important activity not specified above.

- Co-PI, Indian Council of Social Sciences (ICSSR) Project (2019), on “Realisation of Pradhan Mantri Jan Dhan Yojna (PMJDY) Objectives towards Financial Inclusion: A Review of Purvanchal U.P. Region”



Dr. Anurika Vaish

Department : Management Studies

Designation : Associate Professor

Experience (in years) :

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

New courses developed:

Title & course number: Economics (MECO), Organizational Behavior (MORB), Principles of Economics (POE)

Research papers published in journals:

S. No.	Author(s)	Title of the Article	Journal	Volume (No)	Year	Page
1	Singh, Kavita, Sengupta, Sarthak and Vaish, Anurika	Overreaction and Availability Bias: Analysis of Real Estate Sector's Stock Prices and Investors' Reaction during Demonetization in India	Journal of Modern Accounting and Auditing	15(5)	May 2019	232-240

Average Impact Factor:

Google Scholar statistics:-

Citations 155

h-index 6

i10-index 4

Research papers published in conference proceedings:

S. No.	Author(s)	Title of the Article	Conference Title	Date-Month-Year
1	Singh, Kavita; Sengupta, Sarthak; Vaish, Anurika	Interpretive Structural Modelling (ISM) Approach for Deciding Prioritization of Critical Determinants of Price Fluctuation in Non-Ferrous Metals having Precious Value	AGBA's 16th World Congress, IIT Delhi	July 2019
2	Sengupta, Sarthak; Singh, Anurag; Sharma, P.; Krishnan, G.; Vaish, Anurika	Intelligent Learning Management System Based Educational Framework for Optimized Industry Fit Training and Development	IIM Indore-NASMEI Summer Marketing Information Systems Conference,	July 2019
3	Sengupta, Sarthak; Tripathi, Abhishek; Sharma, Kunal; Vaish, Anurika	An Empirical Study On Implementation Of Blended E-Learning Systems In Educational Institutions	International Conference on Humanities, Universiti Sains Malaysia	October 2019



4	Kavita Singh; Sarthak, Sengupta; Vaish, Anurika	Identifying and Analyzing Critical Factors of Industrial Performance: A study of Allahabad, Prayagraj	International Management Conference (IMC 2020), GLA University, Mathura	January 2020
5	Singh, Nimisha; Sahu, Pradipta; Vaish, Anurika	Capacity Building and HR management in digital age	ICAL 2020, IIM, Lucknow,	February 2020

Seminars and invited talks presented:

- Delivered a talk on “Harnessing future opportunities through MBA” at Gyan Ganga Group of Institutions, Rani Durgavati Vishwavidyalaya, 28 August 2019

Work done in project undertaken in the Institute:

- Nodal Officer, Unnat Bharat Abhiyan - IIITA

Other activities:

- Continuing Education Activities
Winter School on Research Methods, held at Aligarh Muslim University, 7- 12 December 2019



Dr. Ranjit Singh

Department : Management Studies
Designation : Associate Professor

Experience (in years) :
 Teaching/Research: 16 year

New courses developed:

- Behavioural Finance

Books and book-chapters published:

S. No.	Author(s)	Book Title	Publisher	Year	Place	Page
1	Singh, Ranjit	Behavioural Finance	PHI	2019	New Delhi	
2	Singh, R., Pathak, A., & Srivastava, B.	<i>Innovations in Business Practices</i>	Bharti Publications	2019	New Delhi	159-167

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Page
1	Jindal Onam, Singh Ranjit, Pandiya Bhartrihari and Upadhyay Chandrakant	Nature of Labour Welfare Laws in India with special reference to Tea industry of Assam	Pacific Business Review International	11	10	2019	86-98
2	Singh Ranjit, Singh Manas, Pandiya Bhartrihari and Upadhyay Chandrakant	IT-Governance Framework Considering Service Quality and Information Security in Banks in India	International Journal of Human Capital and Information Technology Professionals	11	1	2019	64-91
3	Bordoloi Dhrubajyoti, Singh Ranjit, Bhattacharjee Jayashree and Bezborah Pranjal	Assessing the Awareness about Shariah Laws about Equity Investment	Journal of Islamic Finance	9	1	2020	1-12
4	Mondal Sabyasachi and Singh Ranjit	Is Socially Responsible Indices Weak Form of	Asian Social Science	16	2	2020	



		Efficient Market? Evidences from Developing Economies					55-67
5	Choudhury Mousumi and Singh Ranjit	Measuring Customers' Satisfaction in Bancassurance Channel: An Investigation Using Gap Model	Bank Parikrama	45	1	2020	
6	Shankar, Shardul & Singh, Ranjit	Geetanjali Stores	Journal of Case Research	10	2	2020	33-42
7	Singh Manas and Singh Ranjit	Manoj's Self Belief	IMT Case Journal	9	2	2019	54-60

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

S. No.	Author(s)	Article Title	Conference Title	Date- Month- Year	Page
1	Singh Ranjit and Agarwal Suman	Drivers of Financial Inclusion of Excluded Section: A Study on the Members of Self Help Groups	4 th National Conference of North East India Commerce and Management Association	27-09- 2019	67- 78

Seminars and invited talks presented:

- Delivered keynote address in National conference on innovative business practices held at BHU on 2nd March 2019
- Presented paper on 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
- Presented paper on testing weak form of efficient market hypothesis in SRI indices at 72nd All India Commerce Conference organized at KIIT, Bhubaneswar

Other Activities:

- (a) Continuing Education Activities
- 2nd Summer School on Behavioural Finance from 14th June 2019 to 21st June 2019



Dr. Shailendra Kumar

Department : Management Studies

Designation : Associate Professor

Experience (in years) :

Teaching/Research: 18 year

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	Volume	No.	Year	Page
1	Agarwal, S., Kumar, S., and Goel, U.	Stock Market Response to Information Diffusion through Internet Sources: A literature review	International Journal of Information Management (Elsevier Publication)	45	2	April, 2019	118-131

Average Impact Factor: International Journal of Information Management (Elsevier Publication) (5-year Impact Factor 8.690) SSCI Indexed

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

S. No.	Author(s)	Article Title	Conference Title	ISBN	Date-Month-Year	Page
1	Patil, V., Kumar, S.	Comparison between Black-Scholes and Heston model: An Empirical study of Indian Stock Options Market	World Conference on Accounting & Finance (WCAF-19) organized by Science Society, Amravati, India	9788192958012	16 May, 2019	53-59
2	Arora, L., Kumar, S., and Goel, U.	Firm Performance and Systematic Risk	2nd International Conference on Business, Management and Economics (ICBME) organized by ACAVENT at Vienna, (AUSTRIA)	978-609-8239-66-9	21- 23 June 2019	63-80
3	Agarwal, A., Goel, U, and Kumar, S.	Performance Overview of Indian Hedge Fund Industry	2nd International Conference on Business, Management and Economics (ICBME) organized by ACAVENT at Vienna, (AUSTRIA)	978-609-8239-66-9	21-23 June 2019	81-108



Seminars and invited talks presented:

- Title: "Risk Perception", Organized by: 2nd Summer School on "Behavioural Finance" held at Department of Management Studies, IIITA, June 18, 2019

Work done in project undertaken in the Institute:

- Completed IIITA Sponsored Research Project (January, 2020) titled "Stock Market Response to Information Diffusion through Internet Sources: An empirical Study in Indian Context" sanctioned on November, 2017.
- 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.

Other Activities:

- Supervised MBA Master Project of Mr. Patil Vishvajeet Subhash on the topic "Comparison between Black-Scholes and Heston model: An Empirical study of Indian Stock Options Market" during academic session 2018-2019 at Indian Institute of Information Technology Allahabad.
- Supervised MBA Master Project of Mr. Aman Abhishek on the topic "An Analysis of Gold Investment vis-à-vis other Investment option: An Empirical study of Indian capital market" during academic session 2018-2019 at Indian Institute of Information Technology Allahabad.
- Supervised MBA Master Project of Mr. Muga Pruthvi Anvesh on the topic "Impact of cash holding on Stock Returns: An Empirical evidence from Indian Manufacturing sector" during academic session 2018-2019 at Indian Institute of Information Technology Allahabad.



Dr. Pragya Singh

Department : Management Studies
Designation : Assistant Professor

Experience (in years) :
 Teaching/Research: 13 year

Books and book-chapters published:

Paper Titled "Enhancing Professional Communication through virtual learning & blended formats", April 2019, Published as Book chapter in 'Recent Advances in Management & Technology', ISBN: 978-93-86608-94-9, Bharti Publications.

Research papers published in journals:

Paper titled "Digital Promotional Strategies for Multi-brand Retail Fashion stores in India" published in Journal of Statistics and Management Systems (JSMS), Publisher: Taylor & Francis, Paper ID: 223, ISSN: 0972-0510, Indexing: ESCI (WoS), ABDC, BFI, EZB, CNKI, STMA-Z, Year 2020.

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

National Association of Business, Economics and Technology (NABET) NOV 2019

Full Paper Published in Conference Proceedings in May 2020, Pg. 260-279, Paper titled "Industry 4.0: New Challenges for Skills & Competences of Young Students & Graduates" in NABET Conference, NOV, 2019 held at State College, Pennsylvania, USA.

Seminars and invited talks presented:

International:

- Invited talk on "Tourism: An Enthralling Experience for Every-one", for Undergraduate class of Services Marketing (MKTG369) on Nov 05, 2019 at Department of Management & Marketing, Clarion University of Pennsylvania, PA (USA).

National:

- Guest lecture on "I, the Change", April 07, 2019, organized by Lab Academia in association with Raah Foundation & Kashi Theatre on the account of world health organization at Allahabad.
- Guest lecture on "Motivation and Behavioral/Attitudinal Change", at Regional Training Institute, Government of India, Allahabad in July, 2019.
- Guest lecture for PhD scholars on "Performance Appraisal", at Department of Commerce and Business Administration, University of Allahabad, in July, 2019.
- Delivered TEQIP- III Sponsored Invited talk on "Basics of Management and Case Study on Entrepreneurship", at Shambhunath Institute of Engineering and Technology, Prayagraj (UP), India, in July, 2019.

Conferences attended outside IIIT Allahabad:

- Participated in National Seminar on Recent Advances in Management & Technology, and Presented a Paper titled "Enhancing Professional Communication through Virtual Learning & Blended Formats" at RSMT, UP College, Varanasi, UP in April, 2019.
- National Association of Business, Economics and Technology (NABET) NOV 2019. Paper Presented titled "Industry 4.0: New Challenges for Skills & Competences of Young Students & Graduates" in NABET Conference, 07 Nov, 2019 held at State College, Pennsylvania, USA.
- Paper Presented titled "Religious Tourism: An Agenda for research on Destination India" in 09th Nov, 2019 Penn-York conference held at Clarion University of Pennsylvania, USA.
- Paper Presented titled "Motivation, Experience, & Satisfaction from Religious Event: Kumbh Mela" in 09th Nov, 2019 Penn-York conference held at Clarion University of Pennsylvania, USA.
- Poster Presented titled "Realizing Spirituality (Based on Maslow's Motivation Theory) Through Tourism in India", (Ref No. 0345) in 5th World Research Summit for Tourism and Hospitality held at Rosen College of Hospitality Management, University of Central Florida, Orlando, Florida, USA, Dec 2019.
- Paper Presented titled "Hospitality Management: A Case study of Thomas Cook", Paper ID: 44 at 21st Annual Convention of Strategic Management Forum, 27-29th Dec, 2019 at IIM Lucknow.
- Paper Presented titled "Digital Promotional Strategies for Multi-Brand Retail Fashion Stores in India" (Paper Id 223) in International Conference on Sustainable Computing in Science, Technology and Management (SUSCOM-2020), 20th-22nd Jan, 2020 held at Amity University, Jaipur, Rajasthan, India.

Work done in project undertaken in the Institute:

- Principal Investigator of Sponsored Project funded by Indian Institute of Information Technology Allahabad of 10 lakhs INR on the topic "Advent of Digital Marketing Strategies In Tourism Industry" from 11th Oct 2017 to 30th Nov 2018.

Training programmes organized:

- Organizing Committee Member of Two Day Workshop on "Mass Media Informatics", held on 21st -22nd June, 2019 at Indian Institute of Information Technology Allahabad, India.

Other Activities:

(a) Awards and Honors

- Best Paper Award (Employment & Employability Section) in National Seminar on "Recent Advances in Management & Technology", held at RSMT, Uttar Pradesh College, Varanasi in April, 2019.
- Certificate of Appreciation for contribution in Mentoring Students in Preparation for the PENN-YORK Conference held on 09th Nov, 2019 at Clarion University of Pennsylvania, USA.

Any other important activity not specified above:

- Reviewer for Global Journal of Flexible Systems Management (JFSM), Springer (ISSN 0972-2696) since January 2019.



Dr. Utkarsh Goel

Department : Management Studies
Designation : Assistant Professor

Experience (in years) :

Teaching/Research: 7 Industry: 1 year

Research papers published in journals:

S. No	Author(s)	Article Title	Journal Name	Volume	No.	Year	Page
1.	Agarwal Shweta, Kumar Shailendra, Goel Utkarsh	"Stock Market Response to Information Diffusion through Internet Sources: A literature review",	International Journal of Information Management,	45		2019	118-131
2.	Gupta K P, Manrai Rishi, Goel Utkarsh	"Factors influencing adoption of payments banks by Indian customers: Extending UTAUT with perceived credibility",	Journal of Asia Business Studies	13	2	2019	173-195

Average Impact Factor: 8.6, International Journal of Information Management

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

S. No.	Author(s)	Article Title	Conference Title	Paper No	Date-Month-Year	Page
1.	Agarwal Aditya, Kumar Shailendra, Goel Utkarsh	Performance Overview of Indian Hedge Fund Industry	2nd International Conference on Business, Management and Economics(ICBME), Viena Austria	946	21-23 June 2019	81-108
2.	Arora Lalit, Kumar Shailendra, Goel Utkarsh	"Firm Performance and Systematic Risk"	2nd International Conference on Business, Management and Economics (ICBME)	946	21-23 June 2019	63-80

Conferences attended outside IIIT Allahabad:

- 2nd International Conference on Business, Management and Economics (ICBME), Viena Austria, Contributed Paper.

Work done in project undertaken in the Institute:

- Received project grant from ICSSR and started work on project titled "Realisation of Pradhan Mantri Jan Dhan Yojna (PMJDY) objectives towards financial inclusion: a review of Purvanchal U.P. Region"

Training programmes organized:

- Organized two days self finance certificate program on "Research modelling using Excel and R"



Dr. Shashi Kant Rai

Department : Management Studies
Designation : Assistant Professor

Experience (in years) :
Teaching/Research: 10 years

Books and book-chapters published:

S. No.	Author(s)	Book Title	Publisher	Year	Place	Chapter DOI
1.	Shashikant Rai, Saurabh Mishra, Ram Mohan Mishra	Management of quality in perishable food supply chain by using Internet of things (IOT): a novel approach	De Gruyter	2020	U.K.	10.1515/9783110628593-010

Research papers published in journals:

S. No.	Author(s)	Article Title	Journal Name	eISSN	Print ISSN	Vol.	No.	Year	Page
1.	Navneesh Tyagi, D. Baby Moses, Shashikant Rai, Ram Mohan Mishra	Identifying organizational culture in private institutions of higher learning in India	Journal of mechanics of continua and mathematical sciences	2454 - 7190	0973 - 8975	15	1	Jan. (2020)	160-167

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

S. No.	Author(s)	Article Title	Conference Title	Date-Month-Year
1.	Saurabh Kumar Sharma and Dr. Shashikant Rai	Using Reverse Logistics for a better Solid Waste Management in India – Plastic Waste; Towards a Sustainable Environment and Business	ICOI2020 (International Conference on Industry 4.0: Current Perspectives and Future Directions) IMS Ghaziabad	March 2020
2.	Gokul Krishnan B and Dr. Shashi Kant Rai	IoT enabled Quality management of dairy supply chain in India	ICOI2020 (International Conference on Industry 4.0: Current Perspectives and Future Directions) IMS Ghaziabad	March 2020
3.	Shashikant Rai, Ram Mohan Mishra, Anurag Singh and Parag Sharma	Application of IoT in Indian Agriculture Supply Chain Management	ICOI2020 (International Conference on Industry 4.0: Current Perspectives and Future Directions) IMS Ghaziabad	March 2020

Seminars and invited talks presented:

Title: Behavioral aspect of cyber security

Organization: IIIT Allahabad

Date: June 2019

Conferences attended outside IIIT Allahabad:

- ICOI2020 (International Conference on Industry 4.0: Current Perspectives and Future Directions)
IMS Ghaziabad

Work done in project undertaken in the Institute: Supply, Installation and Commissioning of RFID (Radio Frequency Identification) Management System with Integrated Library Management Software (Koha17.11.02) for the Central Library, IIITA.

Training programme organized:

- One Week Summer School On Behavioral Finance

Other Activities:

- Managing and coordinating the lab activities of the department as Faculty-In-charge Lab
- Faculty-In-Charge security of the institute. Managing and supervising the security related issues of the institute.



Dr. Sudipta Das

Department : Management Studies

Designation : Assistant Professor

Experience (in years) :

Teaching/Research: 05 years

Industry: 11 years



Dr. Vineet Tiwari

Department : Management Studies
Designation : Assistant Professor

Experience (in years) :

Teaching/Research: 8.5 Years

Industry: 01 Year

New courses developed:

Title: Supply Chain Logistics Management

Books and book-chapters published:

- Saritha S Vishwanathan, Amit Garg, and Vineet Tiwari (2018), "Climate Change and Water Resources in India" contributed 'Chapter 9 - Water Use Projections in Industry Sector Under Different Climate Change Regimes', ISBN: 978-81-933131-6-9, Published by MoEFCC, GoI, India

Research papers published in journals:

- Upadhyay C.K., Tiwari V., Tiwari V., Pandiya B. (2020) "Crowdsourcing Advent to Optimize Supply Chain Network in Rural India". Soft Computing for Problem Solving. Advances in Intelligent Systems and Computing, vol 1057. Springer, Singapore, pp 77-90, DOI https://doi.org/10.1007/978-981-15-0184-5_8 (SCOPUS).
- C.K. Upadhyay, G.A. Vasantha, Vijayshri Tiwari, Vineet Tiwari (2020), "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 (2020). "Uberisation through Crowdsourcing in Rural India: Towards Entrepreneurial & Sustainable Development", 30th EBES Conference - Kuala Lumpur, Faculty of Economics and Administration, University of Malaya, Program and Abstract Book, ISBN: 978-605-80042-0-7, Publisher: EBES, Istanbul - Turkey, 08-10th January 2020

Conferences attended outside IIIT Allahabad:

- Attended international Conference held during 08-10th January 2020, at Faculty of Economics and Administration, University of Malaya, Kuala Lumpur, Malaysia, organized by EBES Society for presenting a Paper.

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 in September, 2017. (as PI)

Other Activities:

- Visited - Faculty of Economics and Administration, University of Malaya, Kuala Lumpur, Malaysia - in January 2020 for presenting a Paper in the 30th EBES international Conference
- Organized a one day Industry – Academia Conclave on 18th April, 2019 at India International Centre in New Delhi as Organizing Secretary

5

Brief Summary of the Department's Activities During the Year 2019-20











5.1 Department of Information Technology

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

The Department of Information Technology is a vibrant department that witness a large pool of students at the under-graduation, post-graduation and doctoral levels. The department's activity includes providing quality teaching and research to these young and sharp minds, with a lot of emphasis on undertaking innovative projects. The department also stands tall towards undertaking quality research by timely creating new laboratories and expanding the existing ones. The last year saw an effective teaching and research attributed to the strategic and timely decisions of the department. The creation of a pool of electives, upgradation of laboratory facilities resulting in enhanced research and making strategic partnerships have enhanced the department profile.

The department has also been very active in getting projects from external agencies which has continued during the year. The department hosts several activities to benefit the community, ranging from faculty development programs, international conferences to internship programs. The students have been placed in all leading IT companies, who continue to reserve earliest slots for recruitment from our campus.

Teaching, Research and Development

The department opened a new Centre of Excellence entitled Centre of Intelligent Robotics under the chairmanship of Prof. G.C. Nandi. The center has already established several strategic collaborations to make it grow effectively. The center is also given an able support to expand its research infrastructure. The Centre of Cognitive Computing under the chairmanship of Prof. US Tiwary has expanded rapidly since its creation with improved research facilities and research projects.

Dr. Sonali Agarwal and Dr. Triloki Pant along with other international collaborators were succeeded to get the international grant for the consortium project "Teal2.0 Erasmus+ Capacity Building in Higher Education". Dr. Bibhas Ghoshal and Dr. Jagpreet Singh got the research grant from Ministry of Electronics and Information Technology (MeitY) for the consortium project titled "Research Constrained AI". Dr. Vrijendra Singh has successfully completed a research project from RESPOND, ISRO, Govt. of India titled "Speaking Geo-GP Assistant", an android app that helps the policy makers to optimally plan the Gram panchayat based on Geo-data received from the ISRO satellites with voice support in multiple local languages. Prof. Shirshu Varma and Dr. Vrijendra Singh have successfully completed first phase of the Classified Signal Project for Govt. of India.

The department received a pleasant feedback about the conduct of the B. Tech. (IT) with specialization in Business Informatics program with the first batch of students admitted. The students of the program shall now start getting a richer flavor of the specialization specific courses, which is a matter of great excitement.

The department continues to support all existing laboratories by enhancing their research infrastructure. The department purchased numerous research-intensive systems to support research. The department has also been more active than ever towards the conduct of an internship program.

The department has been organizing numerous conferences, workshops and faculty development programs and the numbers are ever increasing, which showcases a very active fraternity. Prof. G C Nandi, Prof. Shirshu Varma, Dr. Vrijendra Singh, Dr. Manish Kumar, Dr. Satish Kumar Singh, Dr. Rahul Kala, Dr. Triloki Pant etc. has successfully conducted self financed courses. Each of these received a high participation.

Academic Re-structuring

The calendar year came after a successful implementation of the new CCLCAA ordinance that has been planned, initiated and implemented under the leadership of the current HOD-IT, Dr. Vrijendra Singh. During COVID-19 Pandemic, the new ordinance has given strong support in continuation of the academic activities without any hurdle and maintaining the academic calendar strictly. During Pandemic, the classes, laboratories and assessments are being held online.



The department also made strategic steps towards upgradation of the quality of masters theses at the post-graduation level, which is important since it is the first batch of post-graduate students under the new ordinance. The steps included giving a fair weightage of marks to the publication of a paper and encouraging students to submit or at least, draft papers ready for submissions before the schedule of the final theses defence. This will increase the research outputs as well as the total number of peer reviewed publications of the department.

The Head of the department also constituted a high level committee to propose a new specialisation on Data Analytics/Engineering in M. Tech. Programme, which is highly demanded by the students, the industries and the research organisations.

The department is also closely working towards means to recruit more PhD scholars, despite the limited Government funding. The department realises the importance of having a good pool of research scholars to showcase the brand value and increase the research output and is towards making strategic steps for sorting out the problem of the limitation of sanctioned seats.

Faculty Recruitment

The department pleased to state the recruitment of Dr. Anshu Anand, who since recruitment has been very active both academically as well as helping the department as a part of different committees. The department notes the severe shortage of faculty in the department and is making all efforts for continuous faculty recruitment. The department is also considering the options of Tutor cum Research Fellow and Tutor cum Research Assistant to mitigate the problems of a lack of faculty, especially in some key areas. There is a continuous need for timely promotion of the existing faculty members, this is required for their retention in the institute and the productivity.

Concluding Remarks

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

Dr. Vrijendra Singh

Head, Department of Information Technology

5.2 Department of Electronics & Communication Engineering

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

About the Department

The department of Electronics and Communication Engineering at Indian Institute of Information Technology, Allahabad was established in 2006 with a vision towards interdisciplinary research with other departments of the Institute. The undergraduate and postgraduate students of ECE students get good exposure in the state of the art technologies with the latest tools and technology design kits. The department offers B.Tech.(ECE), MTech.(ECE), M.Tech.(ECE) with MI specialization, and 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 05 projects from the various funding agencies and received grants for the existing projects. The faculty members of the department have published over 35 Journal papers and 26 Conference papers in reputed peer reviewed International/National Journals and Conferences during 2019-20. Currently, 43 PhD and 36 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. With the support of department, the Faculty members have organized 5 Conferences and Workshops.



- The PhD scholar has won the 2019 Boeing University Innovation Leadership Development (BUILD) Program and the prestigious award in CISCO Global Problem Solver Challenge 2020.
- The 32-bit RISC processor prototype that was developed using FPGA has been used in the undergraduate course curriculum to promote the undergraduate research in the department.
- The General purpose Transceiver chip and Data converter chip were developed using ASIC that has been used in the postgraduate course curriculum to bridge the research gap between academic and Industry.

Training and Placements:

The students of B.Tech. and M.Tech. had registered for the campus placements which were opened in July-August 2019. 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-2019 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. The placement activities during the academic year 2019-20 for B.Tech./M.Tech.(ECE) students were conducted and 80% placement has been attained with highest CTC of 31 Lac/annum and average CTC of 16 Lac/annum. Few of the recruiters are:

Contata Solutions	Cisco
Deutsche Bank	Goldman Sachs
ITH Technologies	Samsung R&D Delhi
Walmart	Ericsson Global
Ola	Oyo
Qualcomm	Optum
Airtel	Fidelity Investments
Samsung SSIR	Go-Jek
Hungerbox	HashedIn
Nucleus Software	SAP Labs
IBM	Samsung R&D Bangalore

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, IIIT-A, 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

Head, Electronics and Communication Engineering

5.3 Department of Applied Sciences

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

About the Department

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

Administrative and Academic initiatives

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

Currently department of AS doing research work in following areas:

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



List of Faculty Members

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

2. PhD Students list with Supervisors:

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

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

2. Student strength in different program:

- 1) M.Tech.: 42
 - 2) PhD: 40
- Total: 82

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

Departmental publications in Journal: 103

Departmental projects: 13

07 (External Funded by DST, MeITy, DBT)

06 (IITA Seed Grant)

Departmental special lectures: 14 External Speakers

Departmental Patent/IPR Initiatives:

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



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

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

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

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

1. Workshop on "Weather Data Modeling and Simulation" for IT professionals on 5 November 2016
2. Workshop on Systems Biology, RNA Seq Technology-March 2016
3. Workshop on Systems Biology, Chip-Seq Technology- October2018



4. Workshop on Virtual Screening and Molecular Dynamics- March 2018
5. Summer Camp (Dronathon)- 1st to 10th June 2018
6. Workshop on "(ExpEYES) Interfacing Physics Experiments to Convert your PC into Physics Laboratory", 21st-22nd April, 2018
7. Conducted 10 Days MHRD Global Initiates of Academic Networks (GIAN) Course on "Numerical Methods on Transport Phenomenon (NMTP)" March 26th – 4th April, 2018, with Foreign Faculty Prof Jean-Pierre Fontaine, UBP, France.

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

5. Department citations: 2624

6. Achievements of students (UG, PG and PhD):

- Four NewGen IEDC (New Generation Innovation and Entrepreneurship Development Centre) projects under the DST:-[Team: Nimisha Roy, Amar Dhawaj, Ankur Jaiswar]
- An Idea "A Portable Corona-Discharge System with Custom Made Electrodes, for PDMS Hydrophilic treatment, & Bonding for Microfluidic Chip Fabrication" selected by Institution Innovation Council, IIIT-A to present at POC(Proof-of-concept) exhibition on 10th August, 2019 organized by MHRD's Innovation Cell & AICTE. [Team: Amar Dhawaj, Ankur Jaiswar, Nimisha Roy]
- Won first prize for making "Portable pulse plethysmogram device for heart rate monitoring" in Project Exhibition organized by IEEE UP branch in IIIT-A. [Team: Amar Dhawaj, Praveen Kumar, Diwakar Badal]
- Neha Mishra received "Emerging Researcher award" in category of filled patents on National Science Day, 2019 held at IIIT-Allahabad.
- Amar Dhawaj received "Emerging Researcher award" in category of filled patents on National Science Day, 2019 held at IIIT-Allahabad.
- Team comprises of "Ankur Jaiswar & Ishita Bansal" won first prize in the Business Model Canvas competition held on 30 November, 2019 by IIIC, IIIT-A.
- Team comprises of "Amar Dhawaj, Prashant Nayak & Vijay Gugloth Nayak" won third prize in the Business Model Canvas competition held on 30 November, 2019 by IIIC, IIIT-A.
- Faizan Ahmed was awarded for 'Best poster award' in Annual Research Day program on 6 March 2019 at IIIT Allahabad, UP, India, and awarded a cash prize of Rs.3000/-.
- Dinesh Kumar was selected for 'Best poster award' in Annual Research Day program on 24 March 2018 at IIIT Allahabad, UP, India, and awarded a cash prize of Rs.4000/-.
- Dinesh Kumar was selected for 'Best poster award' in XXXII Annual IAPT Convention and National Symposium on Recent Trends in Physics at Different Scale, October 29-31, 2017, organized by Gurukul Kangari Vishwavidyalaya, Haridwar – 249404, Uttarakhand, and awarded a cash prize of Rs.1000/-.
- Rashmi Singh was selected for Best Poster Award in International Conference on Magnetic Materials and Applications (ICMAGMA-2017), Hyderabad, India
- Utkarsh Raj was selected for 'Young Research Scholarship' for attending the 15th International Conference on Healthcare & Life-Science Research (ICHLSR), 2017, Kuala Lumpur, Malaysia.
- Utkarsh Raj and Dr. Pritish Varadwaj awarded with the 'First Rank Award' for being amongst the Authors of Excellent Papers in 2016 in the Journal of Interdisciplinary Sciences: Computational Life Sciences by Springer Nature.



- Dr. Utkarsh bagged 'Young Scientist Award' in ICET-2016 which was jointly organized by Biotechnology Society of Nepal and Biologix Research and Innovation Centre Private Limited, India.
- Ph.D. students, Paawan Kumar and Shefali Vinod Ramteke, among the six national winners in Boeing University Innovation Leadership Development Program (BUILD) 2019. Paawan and Shefali were awarded a cash prize of 10,000 US Dollars by the President and CEO of Boeing India, Mr. Salil Gupte.
- Ph.D. students, Paawan Kumar and Shefali Vinod Ramteke, among Top 34 Finalists in FutureAgro Challenge Global Championship 2019, powered by the FAC Global Agripreneur Summit held in Greece from 7-11 September 2019 where the students represented India on the global platform. The event was inaugurated by the Prime Minister of Greece, Mr. Kyriakos Mitsotakis.
- Ph.D. students, Paawan Kumar and Shefali Vinod Ramteke, among top 31 semi-finalists in She Loves Tech 2019 The National Grand Challenge, which is the World's Largest Startup Competition focused on women and technology, powered by Kerala Startup Mission.
Ph.D. students, Paawan Kumar and Shefali Vinod Ramteke, recognized on an international platform - Annual General Meeting 2019 by Indo-Canadian Business Chamber (ICBC), by honorable CEO of ICBC, Mrs. Nadira Hamid for commitment towards adopting the Inclusion Quotient Pledge that fosters gender-inclusive business practices. Interaction with eminent panelists, the ICBC network, in partnership with Air Canada, Trilegal, Invest India, Engendered, Nangia & Co (Andersen Global).
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Top 10 National Winners in Canada-India Acceleration Program 2018, powered by All India Council of Technical Education, Govt. of India and Carleton University, in association with Canada-India Centre for Excellence, Govt. of Canada.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, Top 10 Winners in QUEST Accelerator Program 2018, powered by ZONE Startups, Bombay Stock Exchange, AIC-Mahamana Institute of Innovation and Entrepreneurship, Atal Innovation Mission, NITI Aayog.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, invited as speakers among various recognized panel from Canada and India in Innovation Startup Ecosystem at Annual National Convention 2018, powered by Indo-Canadian Business Chamber and Invest India on 27th November 2018 at Hyatt Regency, New Delhi.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, Alumni in Global GERS Program of Carleton University and Canada-India Centre for Excellence.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, Fellow in WEE Fellowship Program 2018 at SINE IIT Bombay.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Hello Tomorrow's Top 500 deeptech startups worldwide in the Aeronautics track from over 4500 applications from 119 countries.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Top 25 in USIBC/WE Hub Women Startup Pitch Competition for 43rd Annual Meeting of India Ideas Summit held at Mumbai, India.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among finalists in Pitch to MOVE, a Global Mobility Summit, powered by NITI Aayog, INVEST India and SIAM, Government of India held at India Habitat Center, New Delhi held on 4th September 2018. The team was invited to the Global Mobility Summit (MOVE Summit) held at Vigyan Bhawan, New Delhi held from 7th to 8th September 2018. The team interacted with the

mobility event's major speakers and participants include the Prime Minister of India and dignitaries.

- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among top 12 finalists in AcceliCITY Smart City startup 2018 competition and received \$25,000 worth of marketing support by Bee smart city partner of Leading Cities.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, awarded as Top 15 in the Canada India Acceleration Program 2018 All Over India which was held from 25-26th June, 2018 at AICTE Headquarters, New Delhi.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, awarded in the most "Innovative Startup" category by Women Planet Foundation's Planet Pride Awards, Gujarat.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among top 80 all around the world for "K-Startup Grand Challenge 2018" which is organized by Ministry of SME and Startups, Republic of Korea, KIC Europe, NIPA.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among top 50 startups selected from all over India by Berkley Quantela Accelerator as a Delegate/Exhibitor for their startup at Barcelona Smart City Expo India 2019 held at JECC, Sitapura, Rajasthan.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Top 100 and pitched in Airport Authority of India, for Competition for Startups – Initiative for Airports, powered by Government of India at Aviation Training Academy, New Delhi.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, semi-finalists in World Economic Forum 12th Annual Meeting of the New Champions to be held in Tianjin, People's Republic of China from 18th-20th The September 2018.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Top 31 finalists all over India selected for KIIT-TBI IM2 Accelerator Program, powered by Carleton University, Canada and Department of Science & Technology, Government of India.
- As part of the joint collaboration approach between AIM-NITI Aayog and AICTE to promote, engage and support startup ecosystem in India, M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, were nominated to participate and exhibit in 2nd Vibrant Gujarat Start-Up and Technology Summit 2018 scheduled on 11, 12 and 13 October 2018 at Exhibition Centre, Gandhinagar, Gujarat.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, were invited to the Festival of Innovation and Entrepreneurship (FINE) 2018 for demonstration of drone prototype to the honourable President and First Lady at President House, New Delhi.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Top 40 finalists in India Innovation Growth Program 2.0 (2018) powered by DST, Lockheed Martin and Tata Trusts.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among finalists in INNOPRENEURS 2018 contest powered by Lemon Ideas Outreach program.
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Top 15 teams in POWERED Accelerator Program 2018, launched by Shell Foundation, the United Kingdom (UK) Government, DST (Government of India), Microsoft, GTU Innovation Council and Zone Startups India (Founding Partners).
- M.Tech students, Paawan Kumar and Shefali Vinod Ramteke, among Top 10 in QUEST Program in India, invited by Bombay Stock Exchange to interact with the Mr. Piyush Goyal, Cabinet Minister of Railway and Coal, and Mr. Ashish Kumar Chauhan, MD & CEO of Bombay Stock Exchange and Mr. Neelesh Shah, MD of Kotak in Varanasi.

2. Incubation

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

Other Start-Up Initiatives/ New-Gen IEDC

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

3. Consultancy

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

4. Outreach Activities

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

5. Laboratory

Teaching

Physics Lab

Modeling and Simulation laboratory
Biochemistry & Molecular Biology Lab
Chemistry & Nanotechnology Lab
Bioinformatics/Advance Programming Lab
Bio-signal Acquisition and Analysis Laboratory
IIITA-IAPT Anveshika Laboratory

Research

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

Departmental Statistics (IRINS)

Departmental Supporting Staff

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Tel: +91-532-2922197

Mr. Anurag Srivastava

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Tel: +91-532-2922197

Faculty Member at Department of Applied Sciences

Bioinformatics & Biomedical Engineering



Amaresh Kumar Sahoo

PhD (IIT Guwahati)

Assistant Professor

Area of Research

Nanobiotechnology,
Drug delivery, Biosensors



Amit Prabhakar

PhD (IIT Bombay)

Assistant Professor

Area of Research

Bio-MEMS, Microfluidics,
Biosensor



Ashutosh Mishra

PhD (Old Dominion

University, Norfolk)

Associate Professor

Area of Research

Bioelectronics, Biomechanics,
Machine Learning
(On long leave)



B S Sanjeev

PhD (IISc Bangalore)

Assistant Professor

Area of Research

Structural Biology, Parallel
Computing, MD Simulations



Nidhi Mishra

PhD (University of Delhi)

Assistant Professor

Area of Research

Synthetic Medicinal Chemistry,
Natural Product Chemistry



Pritish Kumar Varadwaj

PhD (IIIT Allahabad)

Associate Professor (HoD)

Area of Research

Big Data Analysis, Machine
Learning, Genomics,
Structural Biology



Ratan K Saha

PhD (Saha Institute of Nuclear
Physics, Kolkata)

Assistant Professor

Area of Research

Ultrasonic/photoacoustic
imaging and tissue
characterization



Sangeeta Singh

PhD (Indian Veterinary
Research Institute/MJP
Rohilkhand University)

Assistant Professor

Area of Research

Biofilms, Antimicrobials,
Stem cells

**Sintu Kumar Samanta**

PhD (IIT Kharagpur)

Assistant Professor

Area of Research

Multidrug resistance and post-translational modifications in mycobacteria

**Tapobrata Lahiri**

PhD (University of Kalyani)

Professor and Dean
(Academic & Research)

Area of Research

Structural Proteomics,
Biophysical and Biochemical
Techniques

**Krishna Misra**

PhD (University of Delhi)

Honorary Professor & NASI

Honorary Scientist

Area of Research

Biotechnology,
Chemistry of Natural Products,
Nucleic Acids

Mathematics

**Abdullah Bin Abu Baker**

PhD (IIT Kanpur)

Assistant Professor

Area of Research

Functional Analysis

**Anand Kumar Tiwari**

PhD (IIT Patna)

Assistant Professor

Area of Research

Combinatorial Topology

**Seema Kushwaha**

PhD (IIT Delhi)

Assistant Professor

Area of Research

Number Theory

**Sumit Kumar Upadhyay**

PhD (MNNIT Allahabad)

Assistant Professor

Area of Research

Commutative Algebra

**Savitri Joshi**

PhD (CU, Rajasthan)

Assistant Professor

Area of Research

Survival Analysis,
Statistical Inference

Physics

**Akhilesh Tiwari**

PhD (CSJM University,
Kanpur; Blaise Pascal University,
France)

Associate Professor

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User_ID: atiwari@iiita.ac.in

**Pramod Kumar**

PhD (IIT Bombay)
Associate Professor
Office: 4316 (CC-2);
Extn: 2202;

User_ID: pkumar@iiita.ac.in

Area of Research

Experimental condensed matter

**Srijit Bhattacharjee**

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

Area of Research

Quantum Field Theory, Gravitation, Black Holes



5.4 Department of Management Studies

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

General Information:

1. Second Batch under CCLCAA ordinance has started pursuing MBA (Batch 2019).
2. 04 Students were admitted to full time PhD programme.
3. The process was initiated for taking admission for second batch of MBA (Working Professional) and PhD (Working Professional) program.
4. The professionals from reputed organizations like DRDO, CSIR, SBI, Airtel, Indian Air Force, Indian Army, and Apollo Hospital were admitted to MBA (Working Professional) and PhD (Working Professional) program.

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 took various initiatives to strengthen the assessment system CCLCAA which was launched in the Department last year.

The Department of Management Studies has taken several initiatives to align its courses to the new assessment system and well suited as per industry requirement. 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 PhD 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 PhD 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.
3. Activities like role playing, business plan development, research paper writing etc. were conducted for the overall development of students.

**Academic Activities:**

1. ICSSR Sponsored Research Project titled “Realisation of Pradhan Mantri Jan Dhan Yojna (PMJDY) Objectives towards Financial Inclusion: A Review of Purvanchal U.P. Region” was sanctioned to Dr. Utkarsh Goel, Dr. Shailendra Kumar and Dr. Vijaishri Tewari.
2. 2nd Summer School on Behavioral Finance was organized from 14th June 2020 to 21st June 2020 by Dr. Ranjit Singh.
3. Dr. Pragya Singh was the organizing member of the workshop on “Mass Media Informatics” held on 21-22 June, 2019.

Lab Development:

1. Financial online database “Ace-Equity” 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

Head, Department of Management Studies

6

Research and Development



6.1 Research and Projects 2019-20

Sl. No.	Name of Project	Coordinator	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. Pritish Varadwaj	DST	2,070,860	1,227,930
2	Disaster management system for large scale deployment of sensor network using a fault tolerant mechanism	Dr. Shirshu Varma	DST	15,847,800	7,308,000
3	Distributing Industrial Optimization tasks to Rural Worker- INDO UK BURD Project	Prof. Anupam	DST	6,088,130	4,255,024
4	Technology incubation and Development of Entrepreneurs(Tide) Scheme	Dean (R&D)/ Dr. Rahul Kala	DEITY	16,500,000	6,836,000
5	Inspire Faculty Award	Dr. Sitangshu Bhattacharya	DST	3,500,000	2,629,798
6	IIIT-A Design Innovation Center	Dr. Suneel Yadav	MHRD	6,937,004	6,937,004
7	Special Manpower Development Programme	Dr. Manish Goswami	DietY	5,657,302	5,657,302
8	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	2,088,980
9	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	2,406,105
10	Colour Barcoded, gold Nanoparticle Coated, Embeded, Magnetic Microparticle for Lab on Chip Localized Surface Plasmon Based Label Free Multiplexed Biossays	Dr. Amit Prabhakar	DST	3,222,600	2,157,720
11	Global Initiative on Academic Network	Dr. Satish Kumar Singh	MHRD	5,984,000	5,984,000
12	Silicon nanowires: professional compact model of scaled thermoelectric figure of merit for energy harvesting"	Dr. Rekha Verma	DST	2,109,800	1,718,600
13	Mission Planning using Sampling based techniques	Dr. Rahul Kala	SERB	3,928,766	3,187,713
14	Hindi to English Machine Translation System for Judicial domain	Dr. Pritish Varadwaj	MeitY	2,738,000	2,738,000
15	Physical Layer Security in Cooperative Cognitive Relay Networks	Dr. Suneel Yadav	SERB	4,548,500	4,1485,00
16	Design and Development of Software Packages (s) for Image Illumination Normalization and coloring of the IR Images	Dr. Satish Kumar Singh	DRDO	2,452,643	1,550,000
17	IMPRINT India initiative	Dr. Bibhas Ghoshal	MHRD (IIT Kanpur)	2,023,000	2,023,000
18	Investigations on Chalcogenide Photodetectors	Dr. Sunny Sharma	SERB	5,247,660	4,859,960
19	Medical Cyber Physical System for lifestyle diseases using Big Data Analytics	Dr. Sonali Agarwal / Dr. Rahul Kala	SERB	3,596,250	1,996,137
20	National Post-Doctoral Fellowship Scheme	Dr. Sintu Kumar Samanta	SERB	1,920,000	6,466,93



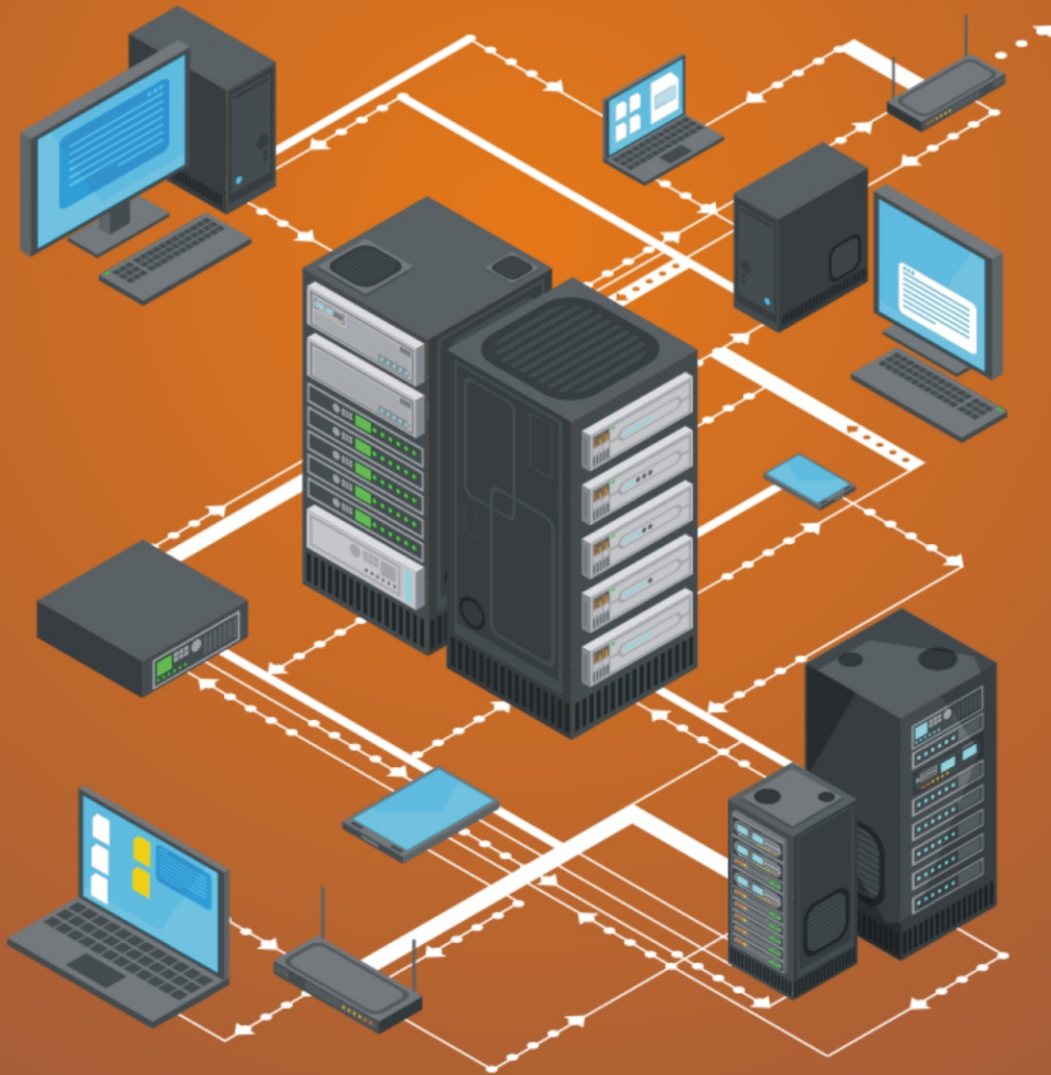
21	Towards disbursement of Micro grant for implementation of projects under the Foldscope scheme	Dr. Amaresh Kumar Sahoo	DBT	8,000,00	6,049,93
22	Near Horizon Structure of Black Holes	Dr. Srijit Bhattacharjee	SERB	1,977,248	1,041,949
23	Cyber Physical Security in Energy Infrastructure of Smart Cities (CPSEC) Indo-Norway Collaboration Project under ICT - CPSEC	Prof. O.P.Vyas	DST	3,575,500	1,244,000
24	Newgen Innovation & Entrepreneurship Development Centre	Dr. Ranjana Vyas	DST	9,500,000	6,000,000
25	Real Time Complex Processing and Analytics for Smart Buildings	Dr. Sonali Agarwal	DST	2,337,720	1,234,200
26	Design and Development of Dimensionality Reduction Techniques for Cyber Physical Systems	Prof. Shekhar Verma	DST	3,128,400	2,059,200
27	Transdifferentiation of Mesenchymal Stem Cells into Functional Neurons on Biodegradable Nanomaterial Scaffolds	Dr. Sangeeta Singh	SERB	3,816,000	1,950,000
28	Scheduling of Precedence tasks with DVFS and Duplication on heterogeneous multiprocessors	Dr. Jagpreet Singh	SERB	1,798,090	7,05,120
29	IMPRES Research Project : Realisation of Pradhan Mantri Jan Dhan Yojna (PMJDY) Objectives towards Financial Inclusion: A review of Puranchal U.P. Region under domain Governance, Innovation and Public Policy	Dr. Utkarsh Goel	Indian Council of Social Science Research (MHRD)	4,20,000	1,60,000
30	Development of Secure IoT Communication using the Blockchain Technology (DST/ICPS/Cluster/CS Research/2018 (General)	Dr. Venkatesan	DST	2,900,000	1,000,000
31	Low Power-High Speed True Random Number Generator for Cryptographic and Security Applications Under Cyber Security (CS) Research of Interdisciplinary Cyber Physical Systems (ICPS) Programme	Dr. Manish Goswami	DST	3,276,000	1,100,000
32	Design and Optimize novel molecules as lipase inhibitors using CADD methodologies	Dr. Nidhi Mishra	Council of Science & Technology, UP	7,800,00	3,90,000
33	Modeling And Simulation of Environmental and Occupational Epidemiology Data In Indian Context An Ontology Based Data Mining Approach	Dr. Sonali Agarwal	CSIR	2,636,000	1,045,000
34	Popularizing the benefits of Information and Communication Technology (ICT) among the farmers and rural population in Prayagraj, UP	Dr. Vijay Kr. Chaurasiya	DST	1,190,750	9,50,000
35	GenomeIndia: Cataloguing the Genetic Variation in Indians	Dr. Pritish Varadwaj	DBT	1,400,0000	2,325,000

6.2 Memorandum of Understanding (MoU)

1	MoU signed between IIITA and Garuda UAV Soft Solutions Pvt. Ltd., dated on 21.06.2019
2	MoU signed between IIITA and ISRO, Bengaluru, India, dated on 23.07.2019
3	MoU signed between IIITA and Keysight Technologies India Pvt. Ltd., dated on 29.07.2019
4	MoU signed between IIITA and Stifing University, Hildesheim, Gemany, dated on 01.03.2020

7

Infrastructural Development



7.1 Infrastructural Development

1.1 Infrastructural Facilities

The Jhalwa campus includes three Computer Centers with several labs each, lecture halls, a newly built auditorium, library, and a residential campus. Various other facilities are under development. This new campus has been developed on 100 acres of land at Devghat, Jhalwa, on the outskirts of Prayagraj (Allahabad).

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

Penrose Geometry

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

Sprawling on 100 acres lush green lawns and expanse of rich flora and devise floriculture, the Campus includes Visitors Guest House, Faculty Guest House, VIP Guest House, 05 Boys' Hostels with the occupancy of 1975 inmates, 03 Girls' Hostels w, 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, etc.

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

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

Salient Features in brief

- 24 X 7 Internet Connectivity
- WiFi connectivity throughout the campus
- Normally each student allotted P4 and above computers
- 24 X 7 uninterrupted power supply
- State of the art facilities for all labs
- All academic and administrative areas are fully air conditions

- Different sport facilities like volleyball court, basketball court, football court, snooker, cricket ground, swimming pool, GYM facilities, etc are available for all the students
- Banking & ATM facilities are available in the Institute premises
- 24 X 7 Medical facilities are available in the campus.
- Hostel messes are fully air conditioned
- Institute is having canteen providing hygienic foods / snacks
- One of the salient features of the training imparted to the students is the hands on computer assembly training. The students themselves have assembled almost all of the Institute's computers, under 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 troubleshooting of any faults, resulting in no requirement of any computer related AMCs.
- Broadband over Power Line (BPL)

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



Health Facility:

The health center of the institute is a 24 x 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.

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	Rooms					Capacity (Students)
	Single	Double	Triple	Suites	Total	
Girls Hostel – I	8	27	8	-	43	484
Girls Hostel – II	10	31	8	-	49	
Girls Hostel – III	112	83	-	24	219	
Boys Hostel – I	108	78	-	-	186	1911
Boys Hostel – II	108	78	-	-	186	
Boys Hostel – III	108	78	-	-	186	
Boys Hostel – IV	168	92	-	-	260	
Boys Hostel – V	252	224	-	56	532	
Married Scholar Apartments				50		130
Total				130		
Grand Total						2525



Classrooms: 32

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



Number of Laboratories: 67

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



Number of Faculty cabins: 108

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

Residential Facilities (Existing)

Sl.No.	Type	Built Area	No. of Rooms
1	J	148 m ²	20
	F	200 m ²	05
	E	165 m ²	06
	D	130 m ²	24
	C	110 m ²	02
	B	85 m ²	48
	A	55 m ²	08
2	Visitors' Hostel I		
	AC Room suites (Refrigerators, TV, computer facilities in six suits), all double beds)		10
	AC Rooms (TV, All Double beds)		20
	Ac Rooms (Dining Hall, cyber cafe-3 computers, gym facilities)		10
	Visitors' Hostel II (For VIP/International Visitors mainly with all essential facilities)		
	Visitors' Hostel III (All double beds, refrigeration in 17 suites, TV with computer in all 30)		
	AC Suites		28
	AC Single		02

Other Amenities:

➤ Swimming Pool	➤ Cafeteria	➤ Director Residence & Camp Office
➤ Auditorium	➤ Amul Parlour	➤ HVAC & Associated work
➤ Pavilion	➤ Nestle Parlour	➤ Internal Furnishing for academic buildings, hostels and auditorium
➤ Volleyball Court	➤ Health Centre	➤ Office Equipments
➤ Lawn Tennis Court	➤ Bank & Post Office	➤ Upgrading of Internet & WiFi Facilities
➤ Athletic Track	➤ Telephone Exchange	
➤ Squash Court	➤ Shops, Dormitory	
	➤ Student Activity Centre	
	➤ Sewage Treatment Plant	





7.2 Lab & Research Facilities

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

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

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

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

Research Laboratories

Sl. No.	Name of the Lab	Faculty Incharge
1	Robotics Lab	Prof. G. C. Nandi, 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 / Dr. Vrijendra Singh / Prof. Shirshu Varma
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/Dr. Anshu Anand
11	Deep Learning lab	Dr. Vrijendra Singh

12	Intelligent Signal Processing Lab	Dr. Shirshu Varma/Dr. Vrijendra Singh
13	Advanced Image & Data Science Lab	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/Dr. Shekher Verma Dr. S. Venkateshan
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 Chkraborty

Biomedical Imaging Laboratory

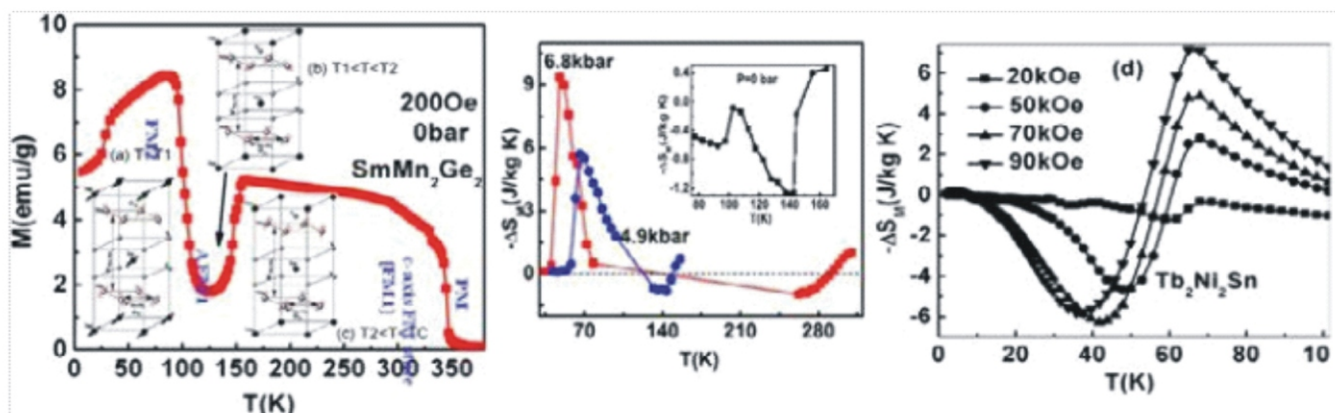
This is a teaching cum research laboratory. Phantom experiments will be conducted to demonstrate basics of ultrasound imaging. The generation of acoustic signal due to absorption of light referred to as the photoacoustic effect will also be demonstrated through simple experiments. Its use in medical 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 1 MHz. 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

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

Robotics and Machine Intelligence Laboratory

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

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

Laboratory purchased the Baxter humanoid robot which has a screen that acts as a face for a socialistic experience, 2 manipulating hands with an electrical and vacuum gripper each, cameras at both hands and forehead to facilitate gripping, and an inbuilt computing system. The robot is compliant to work with the Robot Operating System.

Apart from that we have hardware robots which include:

- 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:

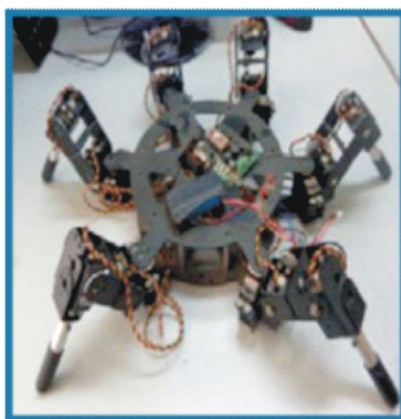
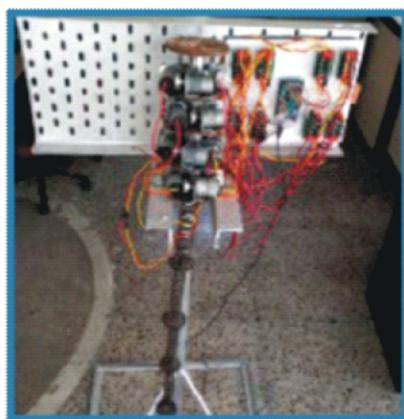
- Development of Adaptive Modular Active Leg (AMAL)
- Social Mobile Autonomous Robot Testbed (SMART)
- Autonomous Navigation Testbed (SMART)
- Social Interactive Mobile Robot (TINKU)
- Elephant Trunk Manipulator

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.





New Research/Teaching Laboratory

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

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

The Bio-MEMS & Nanotechnology Laboratory at IIIT Allahabad was established in early 2017 with major funding support from the DST (WTI-2015, Grant), as well as, SERB (Start-up Grant) sponsored research Grant. It is in the process of constant remodelling and sophistication to accommodate world-class research facilities in this domain. The lab has been established in Room No.: 4114, CC-II, ground floor; and serves to (1) support BME/ BI/ ECE/ IT student's "Bio-MEMS-Lab" and "Biosensors & Transducers-Lab" courses, and train students with hands-on microfabrication/ simulation - skills; and (2) provide innovative research opportunities for undergraduate/ Postgraduate/ PhD students interested in interdisciplinary Bio-MEMS projects. The decisive ambition of the BioMEMS lab is to augment the collection of students that have both acquaintances of microtechnology/nanotechnology and an interest in applying it to medically and biologically pertinent problems.

The BioMEMS lab consists of four Lab-sections:

- (i) **Polymer Microdevice/ Nanodevice fabrication Section:**

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

(ii) Biophotonics Section:

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

(iii) Cell / Tissue on micro-chip section:

This section of the lab offers critical facilities related to growing/ assorting living cells on microfabricated micro-chip to perform various tissue-engineering/ cell-on-chip based innovative experiments.

(iv) Bio-Medical-instrumentation section:

This section of the lab offers critical electrical/electronics facilities related to assembling/ characterizing/ packaging the created bio-medical microdevices or nanodevices, which may lead to proper product design and development.

Equipments:

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

Other Labs:

- Physics Lab
- Modeling and Simulation laboratory
- Biochemistry & Molecular Biology Lab
- Chemistry & Nanotechnology Lab
- Bioinformatics/Advance Programming Lab
- Bio-signal Acquisition and Analysis Laboratory
- IIITA-IAPT Anveshika Laboratory
- Biomedical Informatics Laboratory
- System Biology laboratory
- Biomedical Imaging Laboratory
- Spintronic and Magnetic materials
- Photonic Crystals and Meta Materials

Intellectual Property Right Cell (IPR 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 Library of IIIT Allahabad is a central pillar of the institute. It is located on central place of the campus on equal distance of other academic wings. The main function of Central Library is to provide support in research and resource linkage for students and faculty members of the institute. It provides a quiet study space for students and researchers. Central Library is stocked with books that cater to the student's academic and research requirements. Audio and multimedia versions of some course modules are also available. In addition, dictionaries, journals, thesaurus and encyclopedias are also provided for reference purposes.

There, an E-Media Section equipped with 25 computers is maintained inside the library for reading e-resources being subscribed by the institute. There is a premier section of Theses/Project Reports for the students. The library has already acquired more than 62,000+ books on various courses along with IT related latest titles. The library uses open source software 'KOHA', for maintaining the database and circulation related daily operations.

Institute is a core member of eShodhSindhu (INFLIBNET) consortium, through which number of e-resources like ACM Digital Library, Economic & Political Weekly, Institute for Studies in Industrial Development (ISID) Database, JGate Plus (JCCC), JSTOR, Oxford University Press, SpringerLink, Web of Science (WoS), etc. are being made available on complimentary basis. Apart from this, the library subscribed a good collection of online e-journals- IEEE Digital Explore, Elsevier-Science Direct, Emerald Management, Sage Online Journals, IOP, APS, AMS and EBSCO etc. directly from the publishers on IP based multiple user access.

Collection

Books	Online Journals	Magazine	CDs / Softwares	Lectures / Video Couses
62000+	12961	56	3000+	1005

Functioning

(a) Procurement

- Library procures books, e-books, e-journal databases and magazines etc. based on the recommendations received from faculty members and researchers/students. Orders for the proposed requisitions are placed in consultation with the competent authority.
- Database entry of procured books is done in Library Management System (LMS) according to the accession register.
- Any item procured by the library can be searched on library portal/OPAC (<http://library.iiita.ac.in>)
- Books are properly arranged in various shelf according.
- At least one copy of every title is kept in the library for reference purpose
- The library has optimum blend titles, covering reference interests and also text books.

(b) Circulation

Library provides self registration facility to the students/researchers based on their ID card issued by the institute. Once registration process completed, registered member can self issue the books using LDAP credentials. Online book reservation facility is also available through OPAC if the book is not readily available in the library. Auto generated e-mail alert for New Arrivals, Loan Status, Overdue Reminder and availability status of reserved books etc. are sent to every registered member.

(c) Digital Repository

IIITA Digital Repository (IDR) preserves and enables easy and open access to all types of digital contents including theses, research articles and other scholarly publications etc. The main objective of the IDR is to preserve and enable easy and open access of all types of digital contents to the library users. It developed as an initiative to create and update a comprehensive database of research works becoming a gateway to digital and electronic information.

(d) Subscription

Central Library subscribes various online e-resources as mentioned above. Subscribed digital contents can be accessed throughout the campus as publishers are providing IP based multiple user accessibility with unlimited download facilities. E-resources are:

S. No.	Title of the Subscribed e-Resource (eSS)	S. No.	Title of the Subscribed e-Resource (Direct)
1	ACM Digital Library	1	IEEE Digital Library
2	Economic & Political Weekly	2	EBSCO Business Source Ultimate
3	Institute for Studies in Industrial Development (ISID) Database	3	Emerald Insight
4	JGate Plus (JCCC)	4	Sage Publication
5	JSTOR	5	American Mathematical Society
6	Oxford University Press	6	Institute of Physics
7	Springer Link	7	Elsevier-Science Direct
8	Web of Science	8	American Physical Society

Plagiarism Detection Software

- URKUND (Complimentary through eShodhSindhu)
- Turnitin

NDL E-Resources

- World e-Book Library
- South Asia Archive (SAA)



A collage of black graduation caps with gold tassels falling from a bright blue sky with wispy white clouds.

8

Scholarship/Fellowship/ Assistantships



8.1 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 IIIT Allahabad.
4	Post-matric Scholarship for Persons with Disabilities	The students having more than 40% disability (Certified by competent medical authority of the state Governments/UTs.) are only eligible. Scholarship will be paid to the students whose parents / guardians' income from all sources does not exceed Rs.2,50,000/- 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.
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.
11	PG Fellowship/ Scholarship	- As per government norms as decided by MoE - Department of Higher Education – Technical Section-1 from time to time. - Annual Satisfactory Assessment Report of Student's Performance must be completed to get the SRF Scholarship for 13th Month. Additional Institute Norms – - Student must perform the TAsip duties 8 hours per week against his assigned work by the concerned faculty/ supervisor. - Student must attend at least 75% of his class/lab.	For M.Tech– Rs.12,400/- p.m. Assistantship awarded on a semester to semester basis for a period up to 24 months (or till the end of 4th semester whichever is earlier). OR For Ph.D. Students- Up to 4 Years +1 year if extension is granted. (a) As JRF - Rs.31000/ p.m. (b) As SRF - Rs.35,000/- p.m. after successful completion of 2 years in Ph.D. programme as JRF and if the students clears the comprehensive exam in maximum 2 attempts.

9

The Statistics



9.1 Financial Statistics for the year 2019-20

CAPITAL (OH: 35):-

The MHRD, GoI released Grant-in-aid Creation of Capital Assets (OH: 35) of Rs. 9,09,00,000/- during the Financial year 2019-20 to the Institute. The details are given below:-

Grant received during the year 2019-20 (OH: 35)		
Sanction No. (i)	Date (ii)	Amount (iii)
F.No. 55-8/2019-TS.1 (GEN – 35)	21.06.19	43800000
F.No. 55-8/2019-TS.1 (SC – 35)	21.06.19	4100000
F.No. 55-8/2019-TS.11 (ST– 35)	21.06.19	2100000
Total amount (A)		50000000
F.No. 45-1/2019-TS.1 (GEN – 35)	26.12.19	18000000
F.No. 45-1/2019-TS.1 (SC– 35)	26.12.19	2000000
F.No. 45-1/2019-TS.1 (ST – 35)	26.12.19	900000
Total amount (B)		20900000
F.No. 45-1/2019-TS.1 (GEN – 35)	25.03.20	14700000
F.No. 45-1/2019-TS.1 (SC – 35)	25.03.20	3300000
F.No. 45-1/2019-TS.1 (ST – 35)	25.03.20	2000000
Total amount (C)		20000000
Net Total Grant (A+B+C)		90900000

Against total available funds during the Financial year 2019-20 of Rs. 16,73,59,987- {Opening balance: Rs. 7,14,42,521/- + Internal Accrual (Interest received): Rs. 50,17,466/- + Grant received: Rs. 9,09,00,000/-}, a sum of Rs. 7,54,47,444/- was utilized for the purpose for which the Grant was sanctioned leaving closing balance under Capital Head (OH: 35) of Rs. 9,19,12,543/- as on 31.03.20.

Salary (OH: 36):-

The MHRD, GoI released Grant-in-aid Salary (OH: 36) of Rs. 17,49,00,000/- during the Financial year 2019-20 to the Institute as per details given below:-

Grant received during the year 2019-20 (OH: 36)		
Sanction No. (i)	Date (ii)	Amount (iii)
F.No. 45-1/2019-TS.1 (GEN – 36)	10.05.19	21900000
F.No. 45-1/2019-TS.1 (SC– 36)	10.05.19	2060000
F.No. 45-1/2019-TS.1 (ST – 36)	10.05.19	1040000
Total amount (A)		25000000
F.No. 45-1/2019-TS.1 (GEN – 36)	14.06.19	17550000
F.No. 45-1/2019-TS.1 (SC– 36)	14.06.19	1650000
F.No. 45-1/2019-TS.1 (ST – 36)	14.06.19	800000
Total amount (B)		20000000
F.No. 45-1/2019-TS.1 (GEN – 36)	30.07.19	16600000
F.No. 45-1/2019-TS.1 (SC– 36)	30.07.19	1600000
F.No. 45-1/2019-TS.1 (ST – 36)	30.07.19	800000
Total amount (C)		19000000
F.No. 45-1/2019-TS.1 (GEN – 36)	23.08.19	15750000
F.No. 45-1/2019-TS.1 (SC– 36)	23.08.19	1500000
F.No. 45-1/2019-TS.1 (ST – 36)	23.08.19	750000
Total amount (D)		18000000
F.No. 45-1/2019-TS.1 (GEN – 36)	23.09.19	15750000
F.No. 45-1/2019-TS.1 (SC– 36)	23.09.19	1500000
F.No. 45-1/2019-TS.1 (ST – 36)	23.09.19	750000
Total amount (E)		18000000
F.No. 45-1/2019-TS.1 (GEN – 36)	30.10.19	17550000
F.No. 45-1/2019-TS.1 (SC– 36)	30.10.19	1650000
F.No. 45-1/2019-TS.1 (ST – 36)	30.10.19	800000
Total amount (F)		20000000
F.No. 45-1/2019-TS.1 (GEN – 36)	19.11.19	13000000
F.No. 45-1/2019-TS.1 (SC– 36)	19.11.19	1400000
F.No. 45-1/2019-TS.1 (ST – 36)	19.11.19	600000
Total amount (G)		15000000
F.No. 45-1/2019-TS.1 (GEN – 36)	26.12.19	13000000
F.No. 45-1/2019-TS.1 (SC– 36)	26.12.19	1500000
F.No. 45-1/2019-TS.1 (ST – 36)	26.12.19	500000
Total amount (H)		15000000
F.No. 45-1/2019-TS.1 (GEN – 36)	25.02.20	24900000
F.No. 45-1/2019-TS.1 (SC– 36)	25.02.20	0
F.No. 45-1/2019-TS.1 (ST – 36)	25.02.20	0
Total amount (I)		24900000
Net Total Grant (A+B+C+D+E+F+G+H+I)		174900000



Against total available funds during the Financial year 2019-20 of Rs. 20,44,95,562/- Opening balance: Rs. 2,87,43,991/- + Interest received: Rs. 8,51,571/- + Grant received: Rs. 17,49,00,000/-}, a sum of Rs. 21,15,30,517/- was utilized for the purpose for which the Grant was sanctioned leaving closing balance under Salary Head (OH: 36) of Rs. NIL as on 31.03.20. Excess expenditure over and above released Grant-in-aid Salary (OH: 36) was met out from internal resources of IIIT-A.

General (OH: 31):-

The MHRD, GoI released Grant-in-aid General (OH: 31) of Rs. 20,50,00,000/- during the Financial year 2019-20 to the Institute as per details given below:-

Grant received during the year 2019-20 (OH: 31)		
Sanction No. (i)	Date (ii)	Amount (iii)
F.No. 45-1/2019-TS.1 (GEN – 31)	10.05.19	26280000
F.No. 45-1/2019-TS.1 (SC– 31)	10.05.19	2470000
F.No. 45-1/2019-TS.1 (ST – 31)	10.05.19	1250000
Total amount (A)		30000000
F.No. 45-1/2019-TS.1 (GEN – 31)	14.06.19	17550000
F.No. 45-1/2019-TS.1 (SC– 31)	14.06.19	1650000
F.No. 45-1/2019-TS.1 (ST – 31)	14.06.19	800000
Total amount (B)		20000000
F.No. 45-1/2019-TS.1 (GEN – 31)	30.07.19	17550000
F.No. 45-1/2019-TS.1 (SC– 31)	30.07.19	1650000
F.No. 45-1/2019-TS.1 (ST – 31)	30.07.19	800000
Total amount (C)		20000000
F.No. 45-1/2019-TS.1 (GEN – 31)	23.08.19	17550000
F.No. 45-1/2019-TS.1 (SC– 31)	23.08.19	1650000
F.No. 45-1/2019-TS.1 (ST – 31)	23.08.19	800000
Total amount (D)		20000000
F.No. 45-1/2019-TS.1 (GEN – 31)	23.09.19	17550000
F.No. 45-1/2019-TS.1 (SC– 31)	23.09.19	1650000
F.No. 45-1/2019-TS.1 (ST – 31)	23.09.19	800000
Total amount (E)		20000000
F.No. 45-1/2019-TS.1 (GEN – 31)	30.10.19	13000000
F.No. 45-1/2019-TS.1 (SC– 31)	30.10.19	1400000
F.No. 45-1/2019-TS.1 (ST – 31)	30.10.19	600000
Total amount (F)		15000000
F.No. 45-1/2019-TS.1 (GEN – 31)	19.11.19	13000000
F.No. 45-1/2019-TS.1 (SC– 31)	19.11.19	1400000
F.No. 45-1/2019-TS.1 (ST – 31)	19.11.19	600000
Total amount (G)		15000000
F.No. 45-1/2019-TS.1 (GEN – 31)	26.12.19	39000000
F.No. 45-1/2019-TS.1 (SC– 31)	26.12.19	4000000
F.No. 45-1/2019-TS.1 (ST – 31)	26.12.19	2000000
Total amount (H)		45000000
F.No. 45-1/2019-TS.1 (GEN – 31)	28.02.20	17500000
F.No. 45-1/2019-TS.1 (SC– 31)	28.02.20	1500000
F.No. 45-1/2019-TS.1 (ST – 31)	28.02.20	1000000
Total amount (I)		20000000
Net Total Grant (A+B+C+D+E+F+G+H+I)		205000000

Against total available funds during the Financial year 2019-20 of Rs. 20,59,26,098/- {Grant received: Rs. 20,50,00,000/- + Interest received: Rs. 9,26,098/-}, a sum of Rs. 35,50,55,247/- was utilized for the purpose for which the Grant was sanctioned leaving closing balance under General Head (OH: 31) of Rs. NIL as on 31.03.20. Excess expenditure over and above released Grant-in-aid General (OH: 31) was met out from internal resources of III T-A.



9.2 Examination Results

Under Graduate

Academic Session	Name of Courses	No. of Students Passed				
		Boys		Girls		Total
		With Honors	Without Honors	With Honors	Without Honors	
July 2016-June 2020	B.Tech. (IT)	58	67	13	07	145
Previous Years	B.Tech. (IT)	00	02	00	00	02
July 2016-June 2020	B.Tech. (ECE)	17	36	08	05	66
Previous Years	B.Tech. (ECE)	00	00	00	01	01
TOTAL		75	105	21	13	214

Post Graduate

Academic Session	Name of Courses	No. of Students Passed				
		Boys		Girls		Total
		With Distinction	Without Distinction	With Distinction	Without Distinction	
July 2018 - June 2020	M.Tech. (IT)	05	16	03	01	25
	M.Tech. (IT) (spl. CLIS)	04	09	01	03	17
	M.Tech. (IT) (spl. HCI)	03	03	00	01	07
	M.Tech. (IT) (spl. MLIS)	10	01	06	00	17
	M.Tech. (IT) (spl. SE)	04	11	00	02	17
July 2016 – June 2018	M.Tech. (IT) (spl. HCI)	00	00	00	01	01
July 2016 – June 2020	M.Tech. (IT) (spl. RO)	00	01	00	00	01
July 2018 - June 2020	M.Tech. (ECE) (spl. MI)	04	04	03	02	13
July 2018 - June 2020	M.Tech.(AS) (spl. BI)	05	00	01	01	07
July 2018 - June 2020	MBA	09	03	01	03	16
TOTAL		44	48	15	14	121

Dual Degree

Academic Session	Name of Courses	No. of Students Passed			
		Specialisation	Boys(s)	Girl(s)	Total
July 2015 - June 2020	Dual Degree B.Tech. and M.Tech.	BI	3	0	3
		CLIS	4	3	7
		HCI	4	0	4
		IS	4	1	5
		RO	6	0	6
		SE	6	2	8
		WCE	2	2	4
		MI	4	1	5
		BME	5	1	6
Previous Year		CLIS	1	0	1
		BME	1	0	1
July 2015 - June 2020	Dual Degree B.Tech. and MBA	ITM	4	1	5
		ECM	3	0	3
July 2015 - June 2020	Dual Degree M.Tech. and PhD	MI	1	0	1
August 2020	PhD		6	3	9
DDTOTAL			54	14	68
PG TOTAL					121
UG TOTAL				+	214
GRAND TOTAL					403

9.3 Medal and Awards

Chairman's Gold Medal for the Year - 2020



VAIBHAV SRIVASTAVA
(IIT2016034)

B.Tech. (IT)

**Students recommended for Award of Institute Medals
Academic Batch July 2016 - June 2020**



GOLD
VAIBHAV SRIVASTAVA
(IIT2016034)



SILVER
SHIVAM FIALOK
(IIT2016122)



BRONZE
SIMRAN GILL
(IIT2016088)

B.Tech. (ECE)

**Students recommended for Award of Institute Medals
Academic Batch July 2016 - June 2020**



GOLD
SHRAVYA PANDEY
(IEC2016025)



SILVER
SRISHTI AGRAWAL
(IEC2016501)



BRONZE
GAURANSHI NILI
(IEC2016029)

M. Tech. (IT)

**Students recommended for Award of Institute Medals
Academic Batch July 2018 - June 2020**



GOLD
RASHI AGRAWAL
(MIT2018033)



SILVER
PRAGYA SURESHKUMAR GOYAL
(MIT2018087)



BRONZE
AYUSH JAIN
(MIT2018026)

M. Tech. (ECE)

**Students recommended for Award of Institute Medals
Academic Batch July 2018 - June 2020**



GOLD
JADHAV CHAITANYA DNYANESHWAR
(MEC2018003)



SILVER
ADITI AGRAWAL
(MEC2018012)



BRONZE
ABHISHEK YADAV
(MEC2018008)

MBA

**Students recommended for Award of Institute Medals
Academic Batch July 2018 - June 2020**



GOLD
PARAG SHARMA
(IMB2018015)



SILVER
ANURAG SINGH
(IMB2018010)



BRONZE
SHASHWAT SHANKAR
(IMB2018017)

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

Students recommended for Award of Institute Medals
Academic Batch July 2018 - June 2020



GOLD
DEBADUTTA GODNAIK
(ISM2015501)



SILVER
ISHITA BANSAL
(IBM2015002)



BRONZE
GAGANJEET SINGH REEN
(ICM2015003)

M. Tech. (ECE)

Dr. T.C.M. Pillay Memorial Gold Medal 2020
B. Tech. (IT)
Academic Batch July 2016 - June 2020



GOLD
GARIMA CHADHA
(IIT2016020)

Nobel Laureate Prof. Claude Cohen Tannoudji Gold Medal
B.Tech. (IT)
Academic Batch July 2016 - June 2020



GOLD
TANYA AGARWAL
(IIT2016136)

Prof. Dr. Ing. Mathias Kleiner Gold Medal 2020
Academic Batch July 2016 - June 2020



GOLD
NIHARIKA SHRIVASTAVA
(IIT2016501)

Prof. Joelle Cohen Tannoudji Gold Medal 2020
M. Tech. BI Program
Academic Batch July 2018 - June 2020



GOLD
SHIVANI GUPTA
(MBI2018006)

9.4 Placement

Placement Data – Campus Recruitment in 2019-2020

B.Tech. & Integrated

Company	Student	Company	Student	Company	Student
Acko	03	HashedIn	01	Sumologic	08
Adobe	02	HungerBox	03	Swiggy	05
Airtel	11	IBM	01	Tesco	02
Amazon	04	Increff	01	T-Systems	06
Arcesium	01	Infoedge	01	Udaan	01
Arista Networks	01	Innovaccer	03	Walmart	12
Bizongo	02	Intuit	01	Wipro	02
Bloomreach	01	ITH Technologies	01	Zapr	01
Cisco	10	MakeMyTrip	01	Zomato	04
Citicorp	02	Meesho	04	HSBC	02
Codenation	01	Microsoft	02	Mathworks	01
Cogoport	01	MindTickle	05	Nutanix	01
Contata Solutions	01	Nucleus Software	03	Quantiphi	01
Cure.Fit	02	Ola	11	Société Générale	01
Dailyhunt	05	Oppo	03	Travel Triangle	01
Deutsche Bank	05	Optum	02	UBS	02
Edelweiss	03	Oyo	04	Valuefy	01
Ericsson Global	02	PhonePe	03	Samsung SSIR	03
Fidelity Investments	02	Qualcomm	06	SAP Labs	03
Flipkart	06	Razorpay	06	Google	06
GEP Solutions	03	Sabre	03	Grofers	01
Go-Jek	03	Samsung R&D Bangalore	03		
Goldman Sachs	11	Samsung R&D Delhi	12		

M.Tech.

Company	Student	Company	Student	Company	Student
1MG	04	DailyHunt	04	LYNK	01
Affine Analytics	04	Delhivery	01	MAQ Software	02
Amazon	01	FlikpKart	01	Mathworks	01
Axtria	06	Gojek	01	Mediatek India Pvt Ltd.	04
Better Place	01	IBM	02	Nykaa	02
Cisco	01	Innovaccer	01	Oyo	03
Phillips	04	Qualcomm	03	Quantiphi	01
RazorPay	02	SAP Labs	02	Sony	02
Swiggy	01	TCS	01	TCS Innovation	01
TCS R&D	03	TESCO	02	Yantriks	07

**Student's Placement 2019-2020**

S.No.	Student	Company	Course
1.	Kiran Paswan	Contata Solutions	B.Tech
2.	Hiral Agarwal	Deutsche Bank	B.Tech
3.	Siddhant Shrivastava	ITH Technologies	B.Tech
4.	Pavan Ramadugu	Deutsche Bank	B.Tech
5.	Prachi Shankar	Mentor Graphics	B.Tech
6.	Shubham Varshney	Ola	B.Tech
7.	Nikhil Mundra	Walmart	B.Tech
8.	Apoorv Mahajan	Ola	B.Tech
9.	Gauri Kesarwani	Ola	B.Tech
10.	Pavan Kumar Reddy Chavva	Ola	B.Tech
11.	Utkarsh Chaurasia	Qualcomm	B.Tech
12.	Prafull Singh Patel	Samsung R&D Delhi	B.Tech
13.	Bhuvanesh Gouda	Samsung R&D Delhi	B.Tech
14.	Shravya Pandey	Airtel	B.Tech
15.	Agam Dwivedi	Samsung SSIR	B.Tech
16.	Bhanu Bhandari	Airtel	B.Tech
17.	Pratyush Raj	Deutsche Bank	B.Tech
18.	Gauranshi Nili	Airtel	B.Tech
19.	Sukhavasi Meghana	Hungerbox	B.Tech
20.	Vejendla Chowdary	Deutsche Bank	B.Tech
21.	Vintha Naga Reddy	Samsung R&D Delhi	B.Tech
22.	Suman Kumar	Ericsson Global	B.Tech
23.	Kuldeep Gautam	Nucleus Software	B.Tech
24.	Sharan Kumar	Mentor Graphics	B.Tech
25.	Shreyansh Mishra	Mentor Graphics	B.Tech
26.	Rajendar Bhukya	IBM	B.Tech
27.	Navyasri Alapati	Ola	B.Tech
28.	Avula Mourya Vamsinath	Truebil	B.Tech
29.	Narava Srinivas Dhanunjay	Samsung R&D Bangalore	B.Tech
30.	Aanandita Dhawan	Cisco	B.Tech
31.	Gadipudi Maheswari	Airtel	B.Tech
32.	Noonety Jayanth	Qualcomm	B.Tech
33.	Lovish Goel	Ola	B.Tech
34.	Shubhi Khandelwal	Goldman Sachs	B.Tech
35.	Aditya Anand	Samsung R&D Delhi	B.Tech
36.	Sagar Jadon	Ericsson Global	B.Tech
37.	Jaya Krishna Ganapavarapu	Oyo	B.Tech
38.	Anshu Kumari	Goldman Sachs	B.Tech
39.	Praveen Kumar Mudadla	Hungerbox	B.Tech
40.	Sanam	Samsung R&D Delhi	B.Tech
41.	A Reddy	Optum	B.Tech

42.	Ruchin Agrawal	Fidelity Investments	B.Tech
43.	Prabhat Ranjan	Samsung R&D Bangalore	B.Tech
44.	Shailendra	Nucleus Software	B.Tech
45.	Siddhant Srivastav	Go-Jek	B.Tech
46.	Vinit Roy	Samsung R&D Bangalore	B.Tech
47.	Palle Suhas Reddy	Qualcomm	B.Tech
48.	Mahendra Pitta	Samsung SSIR	B.Tech
49.	H N Arvind	HashedIn	B.Tech
50.	Srishti Agrawal	Mentor Graphics	B.Tech
51.	Ajitesh Kumar Gupta	Qualcomm	B.Tech
52.	Ankit Jain	SAP Labs	B.Tech
53.	Somveer Sharma	Samsung R&D Delhi	B.Tech
54.	Pallak Srivastava	Goldman Sachs	B.Tech
55.	Mantek Singh	Google	B.Tech
56.	Gaurav Tiwari	T-Systems	B.Tech
57.	Lakshya Khattar	Cure.Fit	B.Tech
58.	Subham Raj	Samsung SSIR	B.Tech
59.	Mukul Kumar Singh	Amazon	B.Tech
60.	Mandeep Chakma	GEP Solutions	B.Tech
61.	Divy Prakash Vaishnav	Cure.Fit	B.Tech
62.	Akash Dixit	Zomato	B.Tech
63.	Mansi Choudhary	Oppo	B.Tech
64.	Ashutosh Vishwakarma	Airtel	B.Tech
65.	Akshay Kumar	Edelweiss	B.Tech
66.	Basireddy Durga Shruti Reddy	Airtel	B.Tech
67.	Garima Chadha	Google	B.Tech
68.	Yashwardhan Gupta	Microsoft	B.Tech
69.	Mridul Atul Gupta	Goldman Sachs	B.Tech
70.	Shubhangi Nigam	Google	B.Tech
71.	Ankit Kumar	Edelweiss	B.Tech
72.	Shiv Kumar Yadav	Acko	B.Tech
73.	Parth Agarwal	Walmart	B.Tech
74.	Prathmesh Pathwar	Cisco	B.Tech
75.	Prakash Kumar Yadav	Airtel	B.Tech
76.	G Srisha Anagh	Qualcomm	B.Tech
77.	Guggilla Apoorva	Oyo	B.Tech
78.	Rohit Kumar	Airtel	B.Tech
79.	Akash Mishra	Flipkart	B.Tech
80.	Vaibhav Srivastava	Amazon	B.Tech
81.	Piyush Dinkar Gurnule	T-Systems	B.Tech
82.	Arindam Das Modak	Codenation	B.Tech
83.	Deepanshu Goyal	Swiggy	B.Tech
84.	Gagan Ganapathy Sudhir Ajikuttira	Grofers	B.Tech
85.	Sai Charan Teja Tanguturu	Flipkart	B.Tech
86.	Anmol Singh Sethi	Ola	B.Tech
87.	Vikash Kumar	Samsung R&D Delhi	B.Tech



88.	Manavdeep Singh	Bizongo	B.Tech
89.	Sindhu Bachu	Amazon	B.Tech
90.	Saurabh Mishra	T-Systems	B.Tech
91.	Rajaram Jat	Airtel	B.Tech
92.	Rishab Agarwal	Zomato	B.Tech
93.	Gaurav Gehlot	Infoedge	B.Tech
94.	Vipul Singhal	Sumologic	B.Tech
95.	Ankit Shrey	Cogoport	B.Tech
96.	Austin Kispotta	GEP Solutions	B.Tech
97.	Surabhi Pramod Gogte	Tesco	B.Tech
98.	Prateek Saraswat	Acko	B.Tech
99.	Harshit Agarwal	Walmart	B.Tech
100.	Prajat Bhandari	Walmart	B.Tech
101.	Vikas Kumar	Samsung R&D Delhi	B.Tech
102.	Manish Ranjan	Sabre	B.Tech
103.	Harshit Jain	Arista Networks	B.Tech
104.	Sunil Sohanlal Bansiwala	Razorpay	B.Tech
105.	Manan Maheshwari	Walmart	B.Tech
106.	Maanas Vohra	Cisco	B.Tech
107.	Shreyansh Chaudhary	Flipkart	B.Tech
108.	Siddhant Gautam	Razorpay	B.Tech
109.	Hemant Singh	Airtel	B.Tech
110.	V M Kashyap	Deutsche Bank	B.Tech
111.	Himanshu Bharti	Meesho	B.Tech
112.	Nitin Vijay	Walmart	B.Tech
113.	Siddharth Simharaju	Innovaccer	B.Tech
114.	Swapnil Sheshrao Gharat	MakeMyTrip	B.Tech
115.	Iqbal Ahmad	Oppo	B.Tech
116.	Dheeraj Chouhan	Meesho	B.Tech
117.	Harsh Jain	MindTickle	B.Tech
118.	Priyanka Karnati	Dailyhunt	B.Tech
119.	Pulkit Dinesh Chandra Jaroli	MindTickle	B.Tech
120.	Tondomker Sai Sathy Praful	Ola	B.Tech
121.	Madhur Gupta	Oppo	B.Tech
122.	Shubham Yadav	Arcesium	B.Tech
123.	Luv	Goldman Sachs	B.Tech
124.	Pranav Mahajan	Meesho	B.Tech
125.	Saurabh Dabas	Goldman Sachs	B.Tech
126.	Simran Gill	Goldman Sachs	B.Tech
127.	Reena Yadav	Cisco	B.Tech
128.	Anirudh Singh Rathore	Bizongo	B.Tech
129.	Ashish Agarwal	Microsoft	B.Tech
130.	Akshat	Zapr	B.Tech
131.	Parag Parihar	Adobe	B.Tech
132.	Kalagara Sarath C.Krishna Preetham	Walmart	B.Tech
133.	Kondapalli Sashi Tarun	Walmart	B.Tech

134.	Sanika Sudam Surse	Intuit	B.Tech
135.	Sourav Mitra	Wipro	B.Tech
136.	Aashutosh Mundra	Samsung R&D Delhi	B.Tech
137.	Chahak Sharma	Zomato	B.Tech
138.	Rathore Pravin Brijmohan	Airtel	B.Tech
139.	Aswanth K	Fidelity Investments	B.Tech
140.	Aswin VB	T-Systems	B.Tech
141.	Amit K S	Sumologic	B.Tech
142.	Harshit Agarwal	MindTickle	B.Tech
143.	Bhargav Satya Narasimha Chinta	Cisco	B.Tech
144.	Kadambari Anuranjana	Citicorp	B.Tech
145.	Mohit Verma	Ola	B.Tech
146.	Siddhanth Babu J. Gajendra Rao	Nucleus Software	B.Tech
147.	Sarabjyotsingh C. Singh Multani	PhonePe	B.Tech
148.	Shyam Kumar	Swiggy	B.Tech
149.	Utkarsh Agarwal	Samsung R&D Delhi	B.Tech
150.	Pawan Patidar	Optum	B.Tech
151.	Avanish Chand	Samsung R&D Delhi	B.Tech
152.	Abhishek Kumar	Swiggy	B.Tech
153.	Shivam Fialok	Sumologic	B.Tech
154.	Ramavathu Balaji S.L.Sai P. Kalyan	Udaan	B.Tech
155.	Chandan Kumar	Dailyhunt	B.Tech
156.	Neil Leeson Syiemlieh	Go-Jek	B.Tech
157.	Madamshetty Sai Rakshit	Samsung R&D Delhi	B.Tech
158.	Rohit Panchal	Zomato	B.Tech
159.	Anupam Dagar	T-Systems	B.Tech
160.	Rohan Vinod Bhalerao	Swiggy	B.Tech
161.	Anil Gupta Somisetty	Sabre	B.Tech
162.	Namdev Balaji Nitin Raj Singh	Walmart	B.Tech
163.	Utpal Aman	Dailyhunt	B.Tech
164.	Ridam Arora	Goldman Sachs	B.Tech
165.	Varun Singh	T-Systems	B.Tech
166.	Tanya Agarwal	Google	B.Tech
167.	Sheldon Lawrence Tauro	Google	B.Tech
168.	Rochisha Haldyani	Cisco	B.Tech
169.	Ranjan Kumar	SAP Labs	B.Tech
170.	Chodiseti Ravi Chandra	Goldman Sachs	B.Tech
171.	Rahul Udaiwal	Oyo	B.Tech
172.	Anshuman	Swiggy	B.Tech
173.	Komal Goenka	GEP Solutions	B.Tech
174.	Niharika Shrivastava	Go-Jek	B.Tech
175.	Sathyam Tripathi	Phonepe	B.Tech
176.	Nakul Srivastava	Walmart	B.Tech
177.	Manvendra Dattatrey	Adobe	B.Tech
178.	Nairit Banerjee	Bloomreach	B.Tech



179.	Anant Chaturvedi	Phonepe	B.Tech
180.	Rishi Shukla	Innovaccer	B.Tech
181.	Ayush Gupta	Cisco	B.Tech
182.	Mohammad Aquib	Flipkart	B.Tech
183.	Kamal Chaubey	Sabre	B.Tech
184.	Suras Nayak	Citicorp	B.Tech
185.	Aditi Bansal	Google	B.Tech
186.	Sourin Chakrabarti	MindTickle	B.Tech
187.	Aashutosh Khandelwal	Sumologic	B.Tech
188.	Sashank Mishra	Increff	B.Tech
189.	Adarsh Agrawal	Flipkart	B.Tech
190.	Ganti Aditya Vallabh	Sumologic	B.Tech
191.	RAMESHWAR SANKHALA	SAP Labs	5 Yr. M.Tech
192.	MRITUNJAY CHAUDHARY	Hungerbox	5 Yr. M.Tech
193.	SARWAR ALI	Travel Triangle	5 Yr. M.Tech
194.	HIMANSHUL PATEL	Valuefy	5 Yr. M.Tech
195.	HIMANSHU KUMAR UPADHYAY	UBS	5 Yr. M.Tech
196.	AMRENDRA ROY	Mentor Graphics	5 Yr. M.Tech
197.	ISHITA BANSAL	Wipro	5 Yr. M.Tech
198.	ROHIT GADIA	Dailyhunt	5 Yr. M.Tech
199.	ANKIT KUMAR	Walmart	5 Yr. M.Tech
200.	ABHISHEK PASI	Meesho	5 Yr. M.Tech
201.	GAGANJEET SINGH REEN	Cisco	5 Yr. M.Tech
202.	KESABOINA VENKATA JAYA SINDHU	Razorpay	5 Yr. M.Tech
203.	PATIL SAIRAJ SAHEBRAO	Ola	5 Yr. M.Tech
204.	MANASI MOHANDAS	Goldman Sachs	5 Yr. M.Tech
205.	MUDIT RATHORE	Flipkart	5 Yr. M.Tech
206.	SACHAN ANIKET SANJAY	Mathworks	5 Yr. M.Tech
207.	PETCHETTI VINAY SURYA PRAKASH	Razorpay	5 Yr. M.Tech
208.	SHREYANSH GUPTA	Amazon	5 Yr. M.Tech
209.	ARULPRAKAASH A	Walmart	5 Yr. M.Tech
210.	AYUSH AGNIHOTRI	MindTickle	5 Yr. M.Tech
211.	NIDHEESH PANDEY	Cisco	5 Yr. M.Tech
212.	SHREERANG SATISH AJMIRE	Qualcomm	5 Yr. M.Tech
213.	MOHD SAIF ANSARI		5 Yr. M.Tech
214.	LOVISH KUMAR VATWANI	Oyo	5 Yr. M.Tech
215.	SHUBHAM SAURAV	Société Générale	5 Yr. M.Tech
216.	ASHUTOSH CHANDRA	Tesco	5 Yr. M.Tech
217.	MADHURJYA PEGU	Acko	5 Yr. M.Tech
218.	ADITYA POWALE	Nutanix	5 Yr. M.Tech
219.	HIMANSHU SHEKHAR	Sumologic	5 Yr. M.Tech
220.	MORAMREDDY RAKESH REDDY	Quantiphi	5 Yr. M.Tech
221.	G NAGA NIKHIL	Cisco	5 Yr. M.Tech
222.	HARIOM NIRANJAN	Goldman Sachs	5 Yr. M.Tech
223.	SWAPNESH NARAYAN AZAD	Edelweiss	5 Yr. M.Tech
224.	UJALA SINGH	Razorpay	5 Yr. M.Tech
225.	SEELAM SAINATH REDDY	HSBC	5 Yr. M.Tech



226.	RAGHAV	Razorpay	5 Yr. M.Tech
227.	DEBADUTTA GODNAIK	Sumologic	5 Yr. M.Tech
228.	AYUSHI ASTHANA	Sumologic	5 Yr. M.Tech
229.	M.P.NAGNATH	Innovaccer	5 Yr. M.Tech
230.	ANKIT SINGH BISEN	HSBC	5 Yr. M.Tech
231.	SIDDHARTH VATS	UBS	5 Yr. M.Tech
232.	AMIT KUMAR	Ola	5 Yr. M.Tech
233.	RATHOD VEERENDER	Ola	5 Yr. M.Tech
234.	ISHANI MISHRA	Dailyhunt	5 Yr. M.Tech
235.	U Sumanth	Amazon	2 Yr. M.Tech
236.	Diksha Khas	Cisco	2 Yr. M.Tech
237.	Aadithya MD	Swiggy	2 Yr. M.Tech
238.	Deeksha gupta	Qualcomm	2 Yr. M.Tech
239.	Rashi Agrawal	Qualcomm	2 Yr. M.Tech
240.	Aditi agrawal	Qualcomm	2 Yr. M.Tech
241.	Bavani Sankar A B	Gojek	2 Yr. M.Tech
242.	Rahul Tripathi	SAP Labs	2 Yr. M.Tech
243.	Yashmeet	SAP Labs	2 Yr. M.Tech
244.	Reetu Kumari	RAZORPAY	2 Yr. M.Tech
245.	Sushanth Dnyaneshwar Gunjal	Razorpay	2 Yr. M.Tech
246.	Arindam Nandi	Flipkart	2 Yr. M.Tech
247.	Himanshu Singh	Tesco	2 Yr. M.Tech
248.	Pragya goyal	TESCO	2 Yr. M.Tech
249.	Amit Gupta	DailyHunt	2 Yr. M.Tech
250.	Saurav	Mathworks	2 Yr. M.Tech
251.	Mohit Rajesh Dandekar	DailyHunt	2 Yr. M.Tech
252.	Adityakumar Sarvaiya	Innovaccer	2 Yr. M.Tech
253.	Manish Kumar	Dailyhunt	2 Yr. M.Tech
254.	Shiv Nath Yadav	Dailyhunt	2 Yr. M.Tech
255.	Diksha Aswal	1MG	2 Yr. M.Tech
256.	Aryan Singh	1MG	2 Yr. M.Tech
257.	Ranjan kumar	1 MG	2 Yr. M.Tech
258.	Sachin Saini	1mg	2 Yr. M.Tech
259.	Amarjeet Yadav	Nykaa	2 Yr. M.Tech
260.	Gaurav Kumar	Nykaa	2 Yr. M.Tech
261.	Ayush Jain	LYNK	2 Yr. M.Tech
262.	Amit Kumar Misra	TCS R&D	2 Yr. M.Tech
263.	Mani Kanta	oyo	2 Yr. M.Tech
264.	Vishal verma	Oyo	2 Yr. M.Tech
265.	MohanBharath	TCS R&D	2 Yr. M.Tech
266.	Shalikram	OYO	2 Yr. M.Tech
267.	Sayli Godage	Tcs innovation	2 Yr. M.Tech
268.	Ravi Kumar singh	TCS Rd	2 Yr. M.Tech
269.	Anshul Shankar	Mediatek	2 Yr. M.Tech
270.	Arpit sharma	Mediatek India pvt ltd	2 Yr. M.Tech
271.	Himanshu Chaudhary	Philips	2 Yr. M.Tech
272.	Rishu Raj	Yantriks	2 Yr. M.Tech



273.	Khilare Rachana Bharat	Yantriks	2 Yr. M.Tech
274.	Shikha Sonkar	Yantriks	2 Yr. M.Tech
275.	Aamir Zafar	Yantriks	2 Yr. M.Tech
276.	VIPUL RAAT	Yantriks	2 Yr. M.Tech
277.	Tushar Musale	Yantriks	2 Yr. M.Tech
278.	Tapaswinee Sethy	Yantriks	2 Yr. M.Tech
279.	Dipti Sachan	Mediatek	2 Yr. M.Tech
280.	KHARIBAM PRIYOJIT SINGH	Betterplace	2 Yr. M.Tech
281.	Atul Kumar Jha	Philips	2 Yr. M.Tech
282.	Dikshit Sharma	Phillips	2 Yr. M.Tech
283.	Vikrant Singh	Mediatek	2 Yr. M.Tech
284.	Shubham Shivraj Patre	Philips	2 Yr. M.Tech
285.	Sujata suman	MAQ	2 Yr. M.Tech
286.	Kaushal Sahu	MAQ Software	2 Yr. M.Tech
287.	Sandeep Lakhera	Quantiphi	2 Yr. M.Tech
288.	Ajay Singh	Sony	2 Yr. M.Tech
289.	Bhagyashree	Axtria	2 Yr. M.Tech
290.	Adarsh Singh Chauhan	Axtria	2 Yr. M.Tech
291.	Ashi Yadav	Delhivery	2 Yr. M.Tech
292.	Shubham Kaushik	Axtria	2 Yr. M.Tech
293.	Saurabh Gupta	Axtria	2 Yr. M.Tech
294.	Gurtej Singh	Axtria	2 Yr. M.Tech
295.	D D SRINATH	Axtria	2 Yr. M.Tech
296.	Akshay Kumar Gupta	Sony	2 Yr. M.Tech
297.	Shaurya Garg	IBM	2 Yr. M.Tech
298.	aditya verma	ibm	2 Yr. M.Tech
299.	Kulsoom rehman	TCS	2 Yr. M.Tech
300.	Sourabh Soni	Affine Analytics	2 Yr. M.Tech
301.	Anand bihari gupta	Affine analytics	2 Yr. M.Tech
302.	Kumari Anamika	Affine Analytics	2 Yr. M.Tech
303.	Anurag Singh Gautam	Affine Analytics	2 Yr. M.Tech
304.	Gaurav Singh	AXTRIA	2 Yr. M.Tech
305.	Chaitanya Jadhav	Qualcomm	2 Yr. M.Tech
306.	Shivani Gupta	Survey2connect	2 Yr. M.Tech
307.	Aditi agrawal	Qualcomm	2 Yr. M.Tech

9.5 Events

Felicitation to Dr. Murli Manohar Joshi 12th October, 2019

IIITA honoured its founder, former Union minister Prof. Murli Manohar Joshi, at a grand function on its Jhalwa Campus on 12 October, 2019 (Saturday). The event was part of institute's ongoing programme Stepping in 21st year of "Beyond Twenty by 2020".

Prof. Joshi has inaugurated a new open air theatre built at the convocation ground dedicated as "Dr. Murli Manohar Joshi Muktaagan" having all modern facilities like special benches, free wi-fi, solar lights, stage and clock tower.



Summer Training Program 2020 31st March, 2020

The rapid advancement in the VLSI technology and system integration have made possible to design chips with more than billion transistors. With the advent of VLSI (Very Large Scale Integration) technology, it is now possible to design chips with billion transistors.



Summer Research Internship 2020 under Center for Cognitive Computing (CCC) 15th March, 2020

The Center for Cognitive Computing is a research center established in Indian Institute of Information Technology Allahabad. The center is involved in research, teaching and imparting training through seminars, workshops, summer/winter short term courses and semester long term courses in the field of Cognitive Computing including but not limited to Computer Vision, Language and Image Processing, Signal Processing, Machine Learning, Deep Learning, Biometrics, and Bioinformatics. CCC has incorporated multiple Research Labs, Professors, more than 20 Ph.D. Students and many M.Tech and U.G. Students

**SUMMER RESEARCH
INTERNSHIP PROGRAM
AT CENTER FOR
COGNITIVE COMPUTING,
IIIT ALLAHABAD**

LAST DATE FOR SUBMISSION OF ONLINE APPLICATION
15TH MARCH, 2020 BY 5:00 PM

Photonics Principles and Optical Networks (PPON-2020) 17th February, 2020

The rapid advancement in the area of Optical Networks provides excellent capacity in terms of Bandwidth. Here, the Optical Network is being used as the backbone network. The aim of this Workshop is to update the knowledge of the participants towards Optical Network and Photonics principles. This workshop will also introduce the participants to the current practices in the field and will help in developing the research aptitude in this area

Self Financed Course Cum- Workshop on

**Photonic Principles and
Optical Networks**

(PPON-2020)

23th - 25th Apr, 2020

Celebration of Vikram Sarabhai Centenary 9th February, 2020

The birth centenary of Dr Vikram A. Sarabhai, father of Indian Space programme, great innovator and institution builder is being celebrated this year. To commemorate the event, Indian Space Research Organisation (ISRO) has planned a series of nationwide events from 12th August 2019 to 12th August 2020.



2 Days Workshop on Robotics and Machine Intelligence 4th January, 2020

Robotics and Machine Intelligence are the state of the art technologies for building high degree of automation. With the tremendous advancement of Machine Intelligence, especially Deep learning, the robots are getting smarter and smarter. Apart from industrial automation, the robots have a potential to help in health care automation, sharing social space with humans with emotion recognition capabilities and help differently-abled persons.





IHCI-2019 Conference & Workshop 14th December, 2019

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. The annual conference is held globally. Proceedings are published by major scientific editors. Theoretical, practical and application-oriented contributions are invited. Topics of interest include Human Cognition Modeling, Brain Computer Interfaces, Tactile interfaces, Human-Robot Interaction and collaboration, User adaptation and Personalization, Machine Perception of Humans and Applications.

11th International Conference on
INTELLIGENT HUMAN COMPUTER INTERACTION
Date: 12th to 14th December 2019 (Conference)

CO-LOCATED WITH

Workshop on
COGNITIVE COMPUTING

Date: 12th December 2019 (Workshop)

Venue: Indian Institute of Information Technology Allahabad, India
Jointly Organized by: IIT Allahabad and IIT Jodhpur

[Register Now](#)

3rd IEEE Conference on Information & Communication Technology (CICT -2019) , 6- 8, December 2019, 6th December, 2019

CICT "The IEEE Conference on Information and Communication Technology" is top level International Conference covering broad topics in the areas of Information and Communication Technology. This Conference is started by the five MHRD funded IIITs (IIIT Allahabad, ABV-IIITM Gwalior, PDPM-IIITDM Jabalpur, IIITDM Kancheepuram, and IIITDM Kurnool) with an aim to provide a forum for researchers, industry professionals, and academicians to present and exchange their ideas in latest technological advancements and innovations in the field of ICT. The CICT is jointly organized by the five IIITs annually on rotation basis.



Faculty Development Programme on Data Science 8th November, 2019

Data science is a multi-disciplinary area that uses scientific methods, algorithms and systems to extract hidden knowledge and insights from data (Structured and Unstructured). It is the study of where information comes from, what it represents and how it can be transformed into a valuable resource in the creation of business and IT strategies. Mining large amounts of structured and unstructured data to identify patterns can help an organization in many ways.



Faculty Development Programme on Blockchain 25th October, 2019

Blockchain is an emerging platform for developing decentralized applications and data storage, over and beyond its role as a platform for cryptocurrencies. Even though, blockchain technology has become popularly known because of its use in the implementation of Cryptocurrencies such as BitCoin, Ethereum, etc., the blockchain platform holds much more promise in various areas such as logging of important events in a system, recording transactions, e-governance etc. Hence, it is important to bring awareness among researchers & academicians and train manpower on Blockchain to do innovative research work, projects, and create knowledge base.



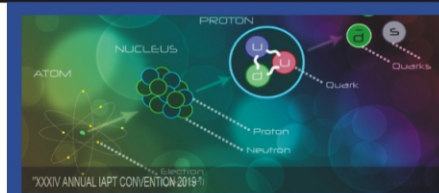
Effervescence 2019 19th October, 2019

Effervescence, IIIT Allahabad is the 3-day annual cultural festival of IIIT Allahabad. This has been a highly successful event organised by the Students' Gymkhana, and Team Effervescence since the past 15 years, and has been graced by the likes of Kumar Vishwas, Farhan Akhtar, Lucky Ali, Daler Mahendi, and so on. Join us for the 16th edition of Effervescence, from 17-19 October at Effervescence, IIIT Allahabad and get ready to immerse yourself in an ever-enthralling experience.



XXXIV ANNUAL IAPT CONVENTION 2019 13th October, 2019

A worthwhile, relevant and significant interaction demand the speaker to listen to the students. It is important for a teacher or a researcher to make the grounds of the students as strong as possible in his interest field. In future, these students and researchers also have the same responsibility for the budding scientists. This chain evolves the science through different stages as in Problem, Imagination, Experiment, Observation and Conclusion which is what we call the Science is.



International Conference on Machine Intelligence and Signal Processing (MISP-2019) 7th October, 2019

The 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. This conference is meant for researchers all over the globe interested in the areas of data mining, artificial intelligence, optimization, machine learning methods/ algorithms, signal processing theory and methods, and applications to human brain disorders like epilepsy, Alzheimer's, sleep disorders etc.



3-days Self Finance Course cum Workshop (Advancement in Wireless Communications) 27th September, 2019

The primary aim of this course-cum-workshop is to impart the knowledge of the advancements in the field of wireless communication among participants. Starting from scratches, most advanced research findings will be described through lectures, invited talks and lab sessions. Also, the assessment will be done for the registered candidates who have interest in joining PhD programme of IIITA in the field of wireless communications.

Self financed course-cum-workshop from Friday Sept 27th to Sunday Sept 29th, 2019
IIT Allahabad, Prayagraj

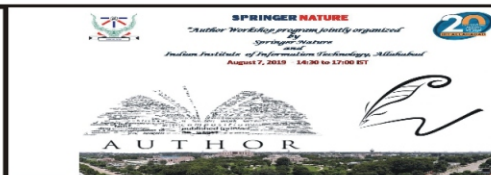
Advancements in Wireless Communications
(An opportunity of learning as well as joining IIITA's PhD Programme)

The primary aim of this course-cum-workshop is to impart the knowledge of the advancements in the field of wireless communication among participants. Starting from scratches, most advanced research findings will be described through lectures, invited talks and lab sessions. Also, the assessment will be done for the registered candidates who have interest in joining PhD programme of IIITA in the field of wireless communications.

Tentative Schedule: (Venue: Admin Auditorium, IIITA, Prayagraj)
Registration: 8:30 to 9:00; Tea: 11:00 and 17:30; Lunch: 13:30 to 15:00

Springer Nature Author Workshop 9th February, 2020

The Workshop will focus on topics such as how to structure your manuscript with attractive title, write abstracts and compose the covering letter for the publisher including publication ethics and how to handle peer-review comments etc. This workshop will be beneficial for all faculty members and researchers interested and involved in getting their research published in international renowned publications.



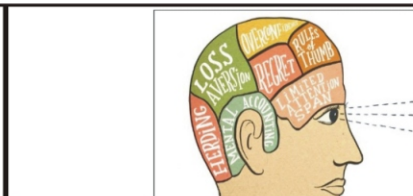
ADASIVA 2019 24th June, 2019

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 intelligence 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/ synthesizing the objects.



Second Summer School on Behavioural Finance 14 June, 2019

Behavioural finance is an emerging area of study which considers the theories based on psychology to elucidate the anomalies in the financial market. Of late there are lots of researches happening in the field of behavioural finance. The course has the objective of introducing the participants with fundamental of behavioural finance and intends to take them to a stage where they can apply this knowledge in everyday decision making.



Summer Training Program on VLSI Design 4th June, 2019

The rapid advancement in the VLSI technology and system integration have made possible to design chips with more than billion transistors. With the advent of VLSI (Very Large Scale Integration) technology, it is now possible to design chips with billion transistors. A specialized one month summer training program from 4th June to 3rd July 2019 has been scheduled at IIIT-A. This training program will cover analog and digital integrated circuit design using commercial technology kits and simulation tools along with exposure to fabrication methods and PCB design.



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, ALLAHABAD,
UTTAR PRADESH, INDIA - 211012

**SUMMER TRAINING PROGRAM
ON
VLSI DESIGN**

Date: 4 June - 3 July 2019
Department of Electronics
and Communication Engg.,
IIIT - Allahabad

Link to Registration:
<https://docs.google.com/forms/d/1FAIpQL1debaquUGUMabFyYtUdSg7LWk3Bw12Cu0V7vKJgG8PC4g/viewform>
Website
stpd.iiit.ac.in

5 Days Course cum Workshop (Self-Financed) on “Effective Image Processing and Machine Learning Tools for Contemporary Applications” with an opportunity to pursue Ph.D. programme at IIITA (Technical Co-sponsor: IEEE CIS UP Section)

Image processing is a prominent field of research and development nowadays. With the advancements in mobile technology and latest trends in social media, it is in more demand in the industry besides its traditional and contemporary applications in various fields. Image processing is also being used in forensics, security, medical science and data analytics with a lot of scope in other fields of research. Thus, it is the demand of present time to learn image processing effectively and efficiently to utilize the skills in robust manner for various applications. Machine learning is equally popular for various applications in present scenario which is very useful for image processing applications too.



5 Days Course cum Workshop on
**Effective Image Processing and Machine Learning Tools
for Contemporary Applications**
With an opportunity to pursue Ph.D. at IIIT Allahabad

ICA
CNN
Deep Learning
Machine Learning
Image Processing
Clustering
Color
Segmentation
Registration
Image Quality
Image Enhancement
Image Compression

June 3rd-7th 2019
Department of Information Technology
IIIT Allahabad

International conference on “Advances in Electronics, Electrical & Computational Intelligence”-2019 (ICAEEC-2019) 31st May, 2019

IIIT Allahabad organized an international conference on “Advances in Electronics, Electrical & Computational Intelligence” by the Department of Electronics & Communication Engineering during 31st May - 1st June ,2019 to provide an platform to all the brilliant minds to showcase their imagination and thought process in the form of work done and to communicate to the rest of the world. The content of the Conference have three prominent sections covering major disciplines of it like Power Electronics /Systems, Smart Grid, Power system economics, Energy storage systems, Power convertors, HVDC systems and FACTS Controllers, Antenna / MIMO, RF Electronics, Nano-electronics, VLSI / ULSI / MEMS, Soft computing/Computational Intelligence well versed techniques of computational intelligence like Machine Learning will also be explored.



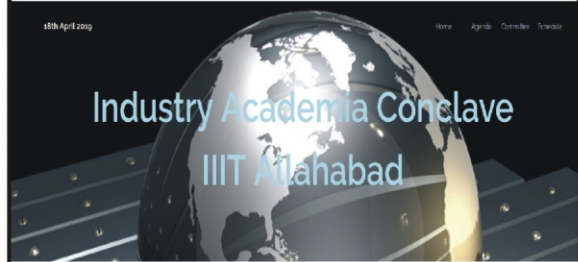
ICAEEC-2019
International Conference on “Advances in Electronics,
Electrical & Computational Intelligence”

31st May - 1st June, 2019
Indian Institute of Information Technology-Allahabad, Prayagraj, INDIA

Industry – Academia Conclave

18th April, 2019

We thank you very much for your excellent patronage with our Institute by extending continuous association through trainings and placements of our students. Your creative feedback has enabled to revise the teaching-learning process at our end and we have boldly designed a new model of continuous learning and continuous assessment in true sense where intellectual performance of a learner is challenged rather than his memory based answering abilities. Also we have built in an option for every B.Tech candidate to slide into dual M.Tech/MBA program by spending one more year beyond his tenure of 04 years meant for Bachelor's degree.



WORKSHOP ON DIGITAL SYSTEMS AND ARCHITECTURE USING VERILOG

5th April, 2019

The rapid advancement in the digital technology and system integration have made possible to design chips with more than billion transistors. A specialized training program has therefore been designed for digital system architecture using VERILOG targeting in-house and external participants.



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	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:

a. Institute level Anti-ragging Committee

1	Dean, Students' Affairs	Chairman
2	Head of the Division	Member
3	Warden/Counselor of the concerned Hostel	Member
4	Registrar/Joint Registrar/Dy. Registrar/Assistant Registrar of Institute	Member
5	Legal Counsel	Member
6	Nominated Person	Member

a. Institute level Anti-ragging Squads

1	Dean, Students' Affairs	Chairman
2	Assistant Proctor (two by rotation)	Member
3	Security Officer	Member
4	One M.Tech/Ph.D. Student Nominated	Member
5	Warden (nominated)	Member

1	Warden of the Hostel	Chairman
2	Two Prefects	Member
3	One representative of Fresher's	Member



Wide publicity of these preventive measures have been made through notice boards, handouts and website of the Institute at all possible places on the Campus, hostels and other vulnerable points. The structured Committees are on the prowl all the times to deal with any inkling of the malady.

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.

A large, stylized letter 'G' in a dark brown color, serving as a background for the text. The 'G' has a thick, solid stroke and a curved, open end on the right side.

11
Student's
Gymkhana
2019-20



Student's Gymkhana 2019-20

Councils

Presidential Council

President	Vice President	General Secretary	Members	
Harsh Bhardwaj IEC2017066	Kamlesh Kumar Verma MIT2019084	Sahil Udayasingh IEC2018021	Pravin Kumar PHC2016003	Kush Mishra IEC2017083

Secretariat

Cultural Council Secretary	Sports Council Secretary	Academic Council Secretary	Technical Council Secretary	Student welfare council Secretary
Agathamudi Rahul Naidu IIT2018192	Pranjal Maurya IEC2018077	Chinmay Nagar IEC2018057	Prateek Mishra IIT2018199	Harsh Kochar IIT2018049

Activities of Gymkhana

The Indian Institute of Information Technology, Allahabad has been a center of excellence in academia, sports and technology for over 22 years now. It has pushed the allegorical boundaries, scaled the emblematic mountains and struggled against every metaphorical obstacle thrown our way. The aim of any education system is to produce leaders who can contribute to the society they are a part of. Sports and extracurricular activities have for long been considered a brilliant tool to groom and mold students into team players and leaders. IIIT Allahabad has continually endeavored to push the boundaries in all disciplines. IIIT Allahabad provides excellent infrastructure for its residents to ensure that academic development is duly supplemented by sufficient physical and personality development as well.

Today the institute is offering its students a creative ecosystem where inquisitiveness and ingenuity is not only encouraged but also rewarded. A healthy amalgamation of academic, sports and cultural undertakings is helping students excel in what they want, making the institute a haven for visionaries and game changers. We have come a long way in such a short time and I hope we continue on this exponential growth trajectory and go far beyond the figurative skies of human struggle and triumph.

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:



Sports Council

The Sports Society of IIIT Allahabad brings you the spirit of life, the spirit of competition, the spirit to win, the spirit to raise, 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 IIIT Allahabad. We as a sports society organised various events last year that were amazing and well organised and everyone enjoyed it with full enthusiasm.

ASMITA:

The Sports Council of Students' Gymkhana Organizes the Annual Sports Meet of IIIT Allahabad named ASMITA in the Month of February Every Year which is of three days. Last year during ASMITA, various sporting events were organised like cricket, basketball, football, volleyball, kho- kho, kabaddi, swimming, athletics, table tennis, carrom, chess and many other team and individual events (both indoor and outdoor). Lot of colleges participated in our sports fest ASMITA. They participated in each and every event with full spirit. During fest we also organised various informal events so that everyone can enjoy the fest. Before few weeks of ASMITA we started these informal events like futsal, gully cricket, push-up challenge, crossbar, etc. 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 these three days of February. Year by year, the level of ASMITA is increasing with the help of the students, faculty and staff members by participating in various sports. And the level of ASMITA was taken up a notch with students from various other institutes coming in to showcase their sporting talents. Participation from various colleges helped in foster true sportsmanship, friendship and a sense of cooperation amongst students.

INTER IIIT:

Teams from IIIT ALLAHABAD also participated in Inter IIIT which is held annually in even semester. This year Inter IIIT was hosted by IIITDM Jabalpur where our teams not only participated but also outshined teams from various IIITs across the country and displayed true sportsmanship.

INTER YEAR:

The Sports Council of Students' Gymkhana also helps in conducting Inter Year competition in the Institute between the students, Staff and Faculty of IIIT Allahabad. Games like football, inter-college basketball and various indoor field events are held in odd semesters whereas the games like cricket, Volleyball, swimming etc are held in Even semester.

In addition to ASMITA, INTER IIIT and INTER YEAR, Sports Council also organizes the annual Independence Day marathon and various intra college and inter college events where teams from various other colleges participate. Teams from IIIT Allahabad have participated in sports meets in several colleges including IITK and IIITDM Jabalpur and have outperformed teams from all across the country to make us all proud.

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 the Batman -the silent guardian and watchful protector looking out for all of us.

Aparoksha:

Aparoksha, the annual Technical Festival has grown into one of India's largest and most anticipated platforms for technocrats and served as a medium for young innovators from our institute as well as others colleges to show off their technical prowess in the events held as a part of the fest.

Aparoksha serves as a perfect launch-pad for tech enthusiasts to showcase their intelligence and inventiveness and a massive platform for various activities, featuring an interesting line-up of more than 50 Sci-tech events including Competitive events, technical conferences, Guest Lectures, and workshops during the three days of March. Boasting a huge roster of exciting and engaging events, Aparoksha'20 was going to witness the performances of great celebrities like Piyush Mishra Band, Rahul Subhramanian and



other artists, but due to the COVID-19 pandemic the fest was cancelled. The events which were conducted pre-Aparoksha are as follows:

- **Techtour:** Two days pre-fest workshops aimed to teach and provide hands-on experience on various technical skills like Web Development, App Development, Python, CC, Cyber Security, Machine Learning and AI etc open for all, This edition witnessed 250+ participants including students from other local colleges as well.
- **CodeRed:** A team of three competitive coding event in which students from all over the country can participate. It witnessed a participation of 1000+ coders.
- **CodeQueen:** A competitive coding event, exclusively for the female coders, with a participation of more than 250 female coders.
- **HumbleFool Cup:** It is an online programming event organized during Aparoksha, in the fond memory of Late Harsha Suryanarayana.
- **Alkharizm:** A rated competitive coding event consisting of only one online round. This edition it garnered a participation of 900+ coders, out of which 63 were international participants.
- **GrayHound:** It is the flagship quizzing event of Aparoksha.
- **B00t2root:** A Jeopardy style CTF Challenge that tests cryptography, application security, binary analysis and all sorts of other technical non-coding skills of the best players teams from all over India.
- **Nova:** An online UI/UX design challenge, where a fictional company will be given.
- **Perplexus:** Tech-quiz event of Aparoksha held online.
- **She-Hacks:** An 18 to 24 hour long hackathon, solely for female coders to build projects catering to real-world problems. It witnessed a participation of 250+ female developers.

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

1. **Geekhaven:** It is the Technical society of IIIT- Allahabad. It has the following wings:

- **FOSS**
- **Web Development**
- **Competitive Coding**
- **App Development**
- **Design**
- **Cyber Security**
- **Artificial Intelligence**

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 :

- **PRAGMA-**A series of Design and Dev workshops and talks.
- **Prototype-** An All-India Hackathon, with prizes worth up to rupees 80k.
- **Tech-Talks-** It also organizes a number of tech-talks by the alumina of the institute and other renowned people.
- **OpenCode** - OpenCode was a month long open source event conducted in the month of february.
- **30 Days of Code** - This was a month long event where mentors taught the students basics of appdevelopment, web development, open source software etc.

2. **Tesla:** It is the Electronics and Automation Society of IIITAllahabad. It has 3 wings- Robotics, IOT and



EDA.

3. **Gravity**, aims to foster scientific innovations with the amalgamation of various disciplines in Science and Technology, Engineering, Medicine, Mathematics, Biology etc. The basic concept behind Gravity is the fact that we attract innovation and talent from students curious in learning about science and technology and latest scientific interventions. This comprises the following wings:-

- **Aeromodelling**
- **Computational Biology**
- **Innovation and Instrumentations in Healthcare**
- **Nanotechnology**
- **ICT Technologies – AI, ML, IoT, Big Data.**

Cultural council

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

- **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 win 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 activities and rejuvenate them to perform better in the academic activities. The events organized during Effervescence are as follows:

- **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.

- **Cognoscentia**

One of the most awaited events, the brain wrecking 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.

- **Foot Loose (Group Dance)**

The main stage event on 17th October was judged by eminent choreographers of the city and saw massive participation from different institutes and dance academies.

- **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.

- **La Frenze(Duet Dance)**

The third and final event of the dance society took place on 18th 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.

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 for forming couples at the time was to find their adaptability among them.

- **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.

- **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:

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.
- **FunkHunt-** An online competitive dance event held during the lockdown period and was successfully conducted.
- **Culrav-** Participated and stood 2nd in Feet On Fire which took place at annual cultural festival of MNNIT Allahabad, Culrav.

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 During Effervescence where you can scribble some interesting stuffs on the wall and win.

Literary Society

Sarasva is home to all things literary: from admirably articulate articles to penetratingly pensive poetry, to stories that leave one delighted, appalled or touched. It has a bit of everything since there's literature in everything.

It organizes debates, group discussions, writing and other literary competitions. This is the place to take a halt and unveil your talent of appreciating the beauty of expression.

Following are the events conducted and initiatives by the society during the academic year 2019-20:

- **Anchoring** Sarasva' team managed the anchoring for most of the on-stage events held throughout



the entire session, including but not limited to all three fests and E-Summit.

- **Group Discussions** Various enriching group discussions were held throughout the session over a plethora of topics which were organized to promote deliberation over social and political themes, and to learn the art of civil and logical discussions.
- **Kavi Sammelan**- A symposium of young Kavis, where a small group of freshers come together on the stage of Foundation Day to appreciate and exhibit the art of Hindi-Urdu poetry by reciting vivid verses conveying a spectrum of emotions.
- **Fresh Verses** A month-long freshers-only online writing competition accepting literary pieces of all types and over any topic, held to promote the great art of writing among freshers and to identify and appreciate their talents.
- **Feathers** A month-long open online writing competition accepting short verses and stories written on prompts given by the society, held as a part of Effervescence.
- **MemeSlam** An online event to express one's opinions and sense of humour through memes.
- **IIITA MUN**- Delegates work with participants from all over the country in a highly competitive environment, in dissecting world affairs and creating policies in a conference of the highest quality, lasting for over two days, and concluding with a grand celebration, the Delegate Night.
- **Open Mic**- Eloquent storytellers and passionate poets from various colleges and all around the city gathered to share their emotions and tales during Effervescence.
- **Crossroads**- A contest consisting of several rounds of spirited debates over a plethora of social and political topics.
- **Dumb Charades** People's synchronization with their friends were put to test during Effervescence when they were subjected to guessing popular movies' name while their partner could act, but not speak.
- **Poetry Barn**- On the aesthetic occasion of America's National Poetry Writing Month, Sarasva conducted Poetry Barn, an open poetry writing event lasting for the entirety of April, in which poets were given weekly writing prompts and the best entries were published.
- **Saqqara**- Sarasva started publishing its own blog, Saqqara, giving the students of IIITA a platform to exhibit their flair in writing, tell their stories, and voice their opinions.
- **Lit Us Review Stuff**- LURS provides a platform for students to hone their critical skills by writing articulate reviews for TV/web series, youtube channels, and movies, after insightful analysis of their writings and content.
- **Chapter by Chapter**- An initiative taken to promote reading and discussion of books and novels amongst the student community during the lockdown. It provides a platform to share book reviews and recommendations with fellow IIITians and find out about great books worth reading.

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, and visual recording of various events staged at IIITA. All the audio and lights works of college events taken care of by this society as a whole. Learners are also welcomed.

Following events organized during this academic year:

- **Exploration**- An online competitive photography event, exclusively for freshers in which they need to explore the institute and click some awesome pictures.
- **Portrait Mysteries**- An online photography event in which you click some mysterious portraits.
- **Tasveer**- An online photography event and a Promotional event of EFFERVESCENCE.



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 inter-college Nukkad natak (street play) event.
- **Innovation**-Onstage Play competition, held during effervescence
- **Vineard**- 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.
- **Double Trouble**- A fun event in which a team of two is assigned small tasks and judged accordingly.
- **Quarantine Qtiyapa**- An online event where participants will post their funny exciting videos of what they have been doing in the lockdown.

Music Society

The Music Society of Gymkhana is responsible to provide a platform for the students to showcase their musical talent. The society apart from having a college band has been successful in putting up wonderful performances and also being helpful in letting the student bite the music bug. Society attends various concerts and musicals during the year.

- **Chords**- A non-competitive music show.
- **Psychedelia**- A non-competitive music band event
- **Melodiux**- A competitive Karaoke event
- **Confuzon**- An even semester music event
- **Unplugged**- Western Acoustic music event



List of Academic Staff 2019-2020

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. 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. Sangeeta Singh
Assistant Professor

Dr. Sunny
Assistant Professor

Dr. Utkarsh Goel
Assistant Professor

Dr. Vijaishri Tewari
Associate Professor

Dr. Ashutosh Mishra
Associate Professor

Dr. Madhvendra Mishra
Associate Professor

Dr. Vijay Kumar Chaurasia
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. Ratan Kumar Saha
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)

Dr. Hemant Kumar
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 Bhattacharjee
Assistant Professor

Dr. Sumit Kumar Upadhyay
Assistant Professor

Dr. Pooja Mishra
Assistant Professor

Dr. Suneel Yadav
Assistant Professor

Dr. Kavindra Kandpal
Assistant Professor

List of Non-Teaching employees for the year 2019-2020

Name of Non-Teaching Employee	Designation
Dr. Asheesh Kumaar	Joint Registrar
Dr. Seema Shah	Joint Registrar
Sh. O P Srivastava	Joint Registrar
Dr. Pavan Kr. Saini	Joint Registrar
Mr. Rajendra Kr. Jena	Dy. Registrar (Library)
Dr. Mithilesh Kr. Mishra	Technical Officer (SS)
Sh. Kanchan Kr. Tiwari	Assistant Registrar (SS)
Sh. Ranjeet Banerjee	Assistant Registrar
Sh. Vivek Nagar	Assistant Registrar
Sh. Niranjana Kumar	Assistant Registrar
Sh. Jayant Biswas	Assistant Registrar
Sh. Ajay Kumar Tiwari	Technical Officer
Sh. Abhinaba Basu	Technical Officer
Sh. Mukesh Rawat	Superintendent
Sh. Rajeev Kr. Bhatia	Superintendent
Sh. Prashant Kumar Srivastava	Technical Superintendent
Sh. Yogesh Kardam	Technical Superintendent
Sh. Anil Bhadauria	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. Avinash Mishra	Junior Engineer
Sh. Sanjay Kumar	Junior Superintendent
Sh. Sunil Kashyap	Junior Superintendent
Sh. K. S. Aeron	Junior Superintendent
Ms. Ankita Jaiswal	Junior Superintendent
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 (on deputation (EOL) to NIC Amethi)	Junior Superintendent
Ms. Jagriti Bajaj	Junior Superintendent
Dr. (Mrs.) Archita Rai	Junior Superintendent
Sh. Neeraj Srivastava	Junior Superintendent
Sh. Kapil Srivastava	Junior Superintendent



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY ALLAHABAD

Name of Non-Teaching Employee	Designation
Sh. Abhishek Pandey	Junior Superintendent
Sh. Sarvesh Kr. Mishra	Junior Superintendent (LIB)
Sh. Atul Tripathi	Junior Superintendent (LIB)
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	Senior Assistant
Mrs. Prabha Verma	Senior Assistant
Mrs. Ritu Srivastava	Junior Assistant
Sh. Jay Singh	Junior Assistant
Sh. Vaibhav	Junior Assistant
Sh. Raj Kumar Rawat	Driver
Sh. Satish Kumar	Driver

List of Medical Officers (on contract) for the year 2019-2020

Name of Medical Officers	Designation
Dr. Ashok Kumar Singh	Medical Officer
Dr. Pritima	Medical Officer
Dr. Yashaswini Srivastava	Medical Officer
Dr. Kaushlesh Dwivedi	Medical Officer
Dr. Kanchan Mishra	Medical Officer
Dr. Vivek Vanshwar	Medical Officer
Dr. L B Patel	Medical Officer
Dr. K S Pandey	Medical Officer

List of Legal Counselor for the year 2019-2020

Mr. Rohan Gupta	Legal Counsel, High Court, Prayagraj
Mr. Rakesh Pandey	Legal Counsel, District Court, Prayagraj



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