



Volume 1

Confluence

Indian Institute of Information Technology, Allahabad



Highlights

Team of confluence

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Message from the Editor

We are very happy to present all of you the first issue of Indian Institute of Information Technology Allahabad (IIIT Allahabad) magazine CONFLUENCE.

IIIT Allahabad was established in 1999, as a center of excellence in information technology and allied areas. The institute was conferred the “Deemed University” status by Govt. of India in the year 2000. The institute has come a long way to become one of the leading institutes of information technology in India. As the institute has been evolving from its teenage to youth, it is expected that it will possess a very bright track record for which we feel proud of. A magazine should provide an appropriate platform for showcasing such achievements. It can also offer a vivid picture of the overall growth of this Institute to all its stakeholders. This visionary and compelling idea was imbibed to us by Honorable Director Professor Dr. P. Nagabhushan, and we are glad to see this maiden issue will be unveiled on Institutes' 20th Foundation Day, 2018- that marks the beginning of two years long programme- “Beyond twenty by 2020”. Confluence is going to be a very effective medium to attract young starters to get associated with IIIT Allahabad and fulfill their dream. This magazine will also provide a useful platform to induce funding agencies and alumni to extend their support which will help the institute to become a center of greater national and international reputation.

Apart from academic achievements introduction of Confluence also opens up a good opportunity to all the inmates of IIIT Allahabad to express their creative minds. The name of the magazine is chosen to be “CONFLUENCE”- reflecting the coalescence of knowledge, curiosity and imagination of IIIT Allahabad family. We expect Confluence will emerge as a powerful medium to induce a wide spectrum of creative activities from the members of IIIT Allahabad family.

We would like to express our sincere gratitude towards the entire faculty, staffs, students and their families for their valuable inputs and cooperation. All of their contributions have helped a lot shaping this edition of Confluence. We hope you enjoy reading this edition and we expect more contributions from you in future. Feedbacks and suggestions are most welcome.

- Debzani Bhattacharjee
Executive Guest Editor

Director's desk



It is a moment of pride for Indian Institute of Information Technology, Allahabad at this juncture when it is completing its Teens, after tracking through all these years progressively, since 1999 the year of its inception, and now while it is stepping into Twenties. Till all these years IIIT-A laid down the strong foundations and is now turning to become visible to the world both at National level and International level and has become fully ready to 'Express' itself clearly and vividly. As the first flag off towards meeting the objective of 'Expressing' is this medium CONFLUENCE, now in your hands. Rightly IIITA's Expression is called CONFLUENCE, as it represents and projects the integration of intelligence, imagination, inquisitiveness, involvement and inclusiveness towards accomplishing the creative progress.

As we move ahead in this challenging period where the matric scheme of the said 'expression' is still to be defined, IIIT-A enjoys a unique privilege to pioneer in a stream of performance and knowledge which would set benchmark for others in times to come. It would set the line of discourse and reasonable thinking amongst the communities for the desired and desirable future consideration to be taken up in spirit and action. The Confluence would act as a pace setter and deliberation platform for such purpose.

Documenting through CONFLUENCE is expected to provide multiple level advantages. Firstly it provides a medium to present IIITA to all the stakeholders. At this level it helps us to understand the gaps that we still have got to address, and thus it provides a constructive awareness to decide upon the path that we should take in the future. Secondly it would create the resonance in some peers, well wishers, funding agencies and alumni who would wonder how they could support the growth of IIITA. Thirdly it would hopefully bring some philanthropists closer to IIITA. Fourthly it could even induce in the young aspirants to think of IIITA as their destination for their future endeavors-be it ; Under graduate, Graduate or Doctoral studies or be it becoming faculty. CONFLUENCE certainly helps to knit us all together.

Several events are thought of and are lined up to commensurate the entry of IIITA into its twenties. The celebrations will be for 24 months starting from the Foundation Day of 2018 on 12th August. In this backdrop, we have earmarked the years of 2018 to 2020 to discover our own involvement and commitment towards taking IIIT-A to a greater height in sequel to the completion of initial 20 years.

Thus, the year 2018, the stepping year of IIIT-A into 20 will be observed as Curtain Raising Year. The Year of 2019, the year of turning into 20 will be the Year of Inauguration and the year of 2020, the Year of moving to go beyond 2020 as Valedictory Year. Through all these 24 months we have slated many academic and co-academic activities and functions. The festival of 24 month's is entitled 'Beyond 20 by 2020'.

The concept of 2020 in itself is an assurance the dual power of present and the past, behaving as a responsible institution mature enough to contribute in the process of nation building through knowledge manifestation and creation of benchmarks in the area of performance and academic persuasion especially the domain of Information Technology. The purpose of this celebration is not only to have a retrospective view to achievements of IIIT Allahabad but also create a framework of progressive resilient and dynamic institution for hence twenty years to come.

Perusing a goal to be the top-most institution in the category of institutions of national eminence and become a model institution for others to emulate and follow.

It is our hope that CONFLUENCE would bring us together, would make us understand and realize the strength in our mutual cooperation and thus would inspire us to take IIITA to a glorious height. I am hopeful and assured that 'CONFLUENCE' will act as the torch bearer and fore runner in disseminating and achieving the aspired synergistic ends of the institution and society at large.

- Prof. Dr. P. Nagabhushan

Institute Activities

CCLCAA System Introduced:

Credit Based Continuous Assessment and Award system (CCLCAA) for B. Tech. & M. Tech. Degree Programs of IIIT Allahabad has been introduced from July, 2018. This 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 student(s) to maintain the continuity in learning process, which eases them of the anxiety that un-necessarily peaks up during the Mid and End semester because otherwise the assessment process is predominantly such examination based.

The proposed framework makes available honorable exit option if a student fails to complete the requirements to earn the degree within the stipulated period.

Beyond 20 by 2020:

IIIT Allahabad is going to celebrate its 20th Foundation Day this year. This is a significant milestone for this institute. To celebrate its illustrious journey for last two decades as an academic institution and to invigorate aspiration among the associated members of the institute a number of academic, co-academic and cultural activities have been planned. This two year long festival is named as 'Beyond 20 by 2020'. This year will be marked as curtain raiser of this event; the year 2019 will be observed as year of inauguration and 2020 as Valedictory year. A core committee has been formed who will guide and manage all the programmes to be held in this festival. The members of the committee are Dr. Prithvi Varadwaj, Dr. Vijaishri Tewari, Dr. Vijay Chaurasiya, Dr. Madhvendra Misra (Coordinator) and Dr. Rajat Singh.

Central Computing Facility:

Indian Institute of Information Technology, Allahabad, is establishing a state-of-the-art Central Computing Facility (CCF). The facility, being established through the vendor M/s Netweb Technologies Pvt Ltd, includes the following components:

- A High Performance Computing facility (HPC) that includes CPU and GPU based nodes with necessary software suite to support not only parallel computing applications but also GPU based high performance software such as machine learning applications.
- A Big Data facility for processing jobs of 200 GB size and higher.
- On campus Cloud Infrastructure.

The above facilities are supported by infrastructure consisting of 100Gbps fabric, PFS storage, Precision Air Cooling and various sensors for monitoring and securing the data center. Dr. B. S. Sanjeev, Dept. of Applied Sciences, has been supervising the installation process of the facility along with Dr. Akhilesh Tiwari, Dr. S. Venkatesan, and Dr. Amit Kumar Dhar.

Courses:

Following GIAN Courses have taken place recently:

1. **Parallel and Distributed Data Stream Mining**, Foreign Expert **Dr. Srikanta Tirthapura**, United States of America and course coordinator, **Dr. Sonali Agrawal**, Dept. of IT, IIIT Allahabad, Dec 19 to 23, 2017.
2. **Graphical Model for Machine Learning**, Foreign expert **Dr. Gaurav Sharma**, USA and course coordinator, **Dr. Satish Kumar Singh**, Dept. of IT, IIIT Allahabad, Dec. 25, 2017 to Jan 05, 2018
3. **Hedge Funds and their Trading Strategies**, Foreign Expert **Dr. Vikash Agrawal**, United kingdom and course coordinator, **Dr. Shailendra Kumar** and **Dr. Utkarsh Goel**, Dept. of Management, IIIT Allahabad, Feb. 19-23, 2018.
4. **Numerical Methods for Transport Phenomenon**, Foreign Expert **Dr. Jean-Pierre Fontaine**, Clermont Auvergne University, France and course coordinator, **Dr. Akhilesh Tiwari**, Dept. of Applied Sciences, IIIT Allahabad, Feb. 19-28, 2018.

Two- Days Short Term Course on Cognition and Biometrics (29th-30th Oct'2017):

The course has been attended by persons from corporate and academia. The chief guest of the course was Prof. Vincenzo Piuri from University of Milan, Milano, Italy. Other resource persons were Prof. Uma Shankar Tiwari, Prof. Sekhar Verma and Dr. Pavan Chakraborty.

Workshops:

Two weeks National Workshop and Summer School on Advances in Deep Architectures in Signal, Image, and Vision Applications (ADASIVA):

A machine learning based workshop cum summer school named ADASIVA was organized at IIIT, Allahabad from 14/07/2018 to 28/07/2018. Around 40 shortlisted participants were trained from all over India on state of the art advancements in cutting edge research related developments in the mentioned fields. The Computer Vision & Biometrics Lab (CVBL) of IIIT-A organized the workshop. The convener of the workshop was Dr. Satish K. Singh, Dept. of IT, and Dr. Mohammed Javed, Dept. of IT, was the coordinator.

2nd Workshop on Machine Learning and Data Analytics: The workshop was held between 20– 26 June, 2018. The workshop addressed the basics and recent research work on machine learning, security and data analytics. In addition, the integration of three dimensions will be discussed with its importance. Prof. Shekhar Verma, Dept. of IT, was the chairperson of the organizing committee and and Dr. Manish Kumar,

Dr. K. P. Singh and Dr. S. Venkatesan, Dept. of IT, were the coordinators of the workshop.

A 3-Day Workshop on Thin Film Technologies in association with OSA IIITA Student Chapter: A workshop on thin film technologies was held between 6-8 June, 2018 by the Department of Electronics & Communication, IIIT Allahabad. Dr. Sunny Sharma, Dept. of EC was the convener of the workshop.

Two Days Workshop on (ExpEYES) Interfacing Physics Experiments: Department of Applied Science, IIIT-Allahabad, organized a two days workshop on “(ExpEYES) Interfacing Physics Experiments on 21-22 April, 2018 in collaboration with Indian Association of Physics Teachers (IAPT) (Regional Council-4, UP Section). Dr. B.P. Ajith Kumar (IAPT) has coordinated & executed 2-days workshop on ExpEYES . Almost 25 graduate, postgraduate students and faculty from institute participated in the workshop. Dr. Akhilesh Tiwari (Head, Department of Applied Science, IIIT Allahabad) was the convener of the workshop. Dr. Pramod Kumar and Dr. Srijit Bhattacharjee, Dept. of Applied Science, were the coordinators of this workshop.

IEEE Leadership Workshop: IEEE Signal

Processing Society, Computer Society & IEEE Student Branch, IIIT Allahabad, jointly conducted a two day “IEEE Leadership Workshop” from 24th March to 25th March, 2018. Participants included students from B.Tech., M.Tech., MBA and Ph.D. IEEE Student Branch IIIT Allahabad won the **IEEE UP Best Student Branch Award** for the year 2017-2018.

2 Day Certificate Programme Research Methods and Data Analysis Using R & SPSS :

A two day workshop during 13-14 Nov, 2017 was held at IIIT Allahabad to enable practitioners with the elementary understanding of research methods and hands on practice using R and SPSS.. The Program coordinators were Dr.

Madhvendra Misra, and Dr. Vineet Tiwari of Dept. of Management Studies, IIIT Allahabad.

IoT using Raspberry Pi: Department of ECE, IIIT Allahabad organized a Workshop on IoT using Raspberry Pi during 11-12 November 2017. Dr. Suneel Yadav was the convener of the workshop.

All India Student – Young Professionals – Women in Engineering Congress: AISYWC was hosted by IEEE UP Section at the IIIT Allahabad, Uttar Pradesh from 27th to 29th September, 2017. Total 30 speakers from diverse fields of science, engineering, management, social and corporate sectors visited the campus and delivered marathon of talks to the young students, entrepreneurs and women.



I Summer Schools

One Week Summer School On Behavioural Finance: A one week programme on behavioural finance was organized by Department of Management Studies between 15-21 June, 2018. Dr Ranjit Singh, was the Chief Programme Coordinator. Dr. Saurabh Mishra and Dr. Sashikant Rai were the other coordinators of the programme.

SUMMER TRAINING PROGRAM ON VLSI DESIGN -2018 (STPVD) A one month summer training program on VLSI design (STPVD 2018) was organized from June 11 2018 to July 9 2018 to increase the manpower in VLSI design and related area by Dr Prasanna Misra and Dr Manish Goswami, Dept. of Electronics & Communication Engineering.

Summer Camp on Internet of things and Unmanned Aerial Vehicle: This summer camp was organized by Dr. Suneel Yadav , Dept. of ECE. The workshop was organized for 10 Days 1-10 June, 2018(3 hour per day). During this, sharp minds got involved in project fabrication with full time availability of experienced persons of these fields.

| Sponsored Projects

1. Dr. Manish Goswami (PI) and Dr. Prasanna Misra (Co-PI) received funding from MeitY, Ministry of Electronics and Information Technology, GoI for the Project titled "Special Manpower Development Programme Chip to System Design".
2. Dr. Suneel Yadav received funding from Science and Engineering Research Board (SERB), Department of Science and Technology (DST), GoI for the Project titled "Physical Layer Security in Cooperative Cognitive Relay Networks".
3. Dr. Suneel Yadav is the principal investigator of Ministry of Human Resource and Development (MHRD), project- Design Innovation Center (DIC) Spoke.
4. Dr. Amaresh Kumar Sahoo received a grant from the Department of Biotechnology, Ministry of Science & Technology, New Delhi for a project entitled "Study the Yearly Diversity of the Aquatic Bacterial Communities in the Sangam-Allahabad".
5. Dr. Srijit Bhattacharjee received Early Career Research Award from SERB, DST for a project entitled "Near Horizon Structure of Black Holes".



| Hack in the North

Hack in the North started out as a dorm room idea back in 2016 by a few unorthodox driven students of IIIT Allahabad who wanted to move away from the realm of the normal academic routine and organise a hackathon to help expand the thinking of students and show that you don't always need a lifetime to make something extraordinary. Sometimes, you can do it in 36 hours too. Beating it's own stats with every passing year, Hack in the North has undoubtedly grown exponentially over time. Starting from 2 sponsors in our first edition to 14 in our second to 32 sponsors in our third with over 2000 registrations, you definitely know that we're not kidding.

IIIT Allahabad Events



Tree plantation on
Foundation Day at 2017



12th Convocation, 2017



Effervescence, 2017



Independence Day speech delivered
by Prof. K.C. Gowda in 2017



Republic Day celebration with
Prayas children

IIIT Allahabad Events



Prize in given Ceremoney (ASMITA), 2018



Annual Sports Meet (ASMITA), 2018



Hack In the North, 2018



Tech Fest Aparoksha 2018



Women's Day Celebration on 19th March 2018



TEDxIIITA 2018

IIIT Allahabad Events



Annual Cultural Fest Effervescence, 2017



Alumni Meet, 2017



SPICMACAY Programme



Researchers' Day, 24 March, 2018

| Two Day open book fair:

The Institute also organized a two-day book fair on Jan 30-31, 2018 at its new auditorium gallery, Jhalwa campus. The Director inaugurated the fair and said books related to various subjects were on the display.

| Doctors' Day

The Doctor and paramedical staff of the Health Centre of the Indian Institute of Information

Technology, Allahabad, (IIIT-A) planted saplings at the premises of the health center to mark the Doctors Day on 1st July, 2018. About two dozen saplings of fruit trees were planted by the doctors to create awareness about nature. Besides the medical fraternity, the Director, Prof P Nagabhushan, and his wife, Lakshmi bhushan, planted saplings. Dr. Kaushalendra Dwivedi, Dr. Sonia Agarwal, Dr. P Chaudhary, Dr Yashwani, Dr S. Verma, Vindoo Tripathi, Jayabhushan and Dr. Shashikant Rai also planted saplings.

| Desi Drone "PS-1925" (Unmanned Aerial Vehicles or UAVs)

PS-1925 team has been ideating about drones since 2015 and now they are on the stage of exuberant growth as a startup. The team comprises of Paawan Kumar and Shefali Vinod Ramteke, students enrolled in the Dual Degree Program of B.Tech in ECE and M.Tech in Bio-medical Engineering and student principle investigators in Design Innovation Centre IIIT-Allahabad Spoke Centre. They have been working under the guidance of Dr. Suneel Yadav, Assistant Professor, ECE Department and Coordinator of Design and Innovation Centre (DIC) IIIT-Allahabad Spoke Centre. The team has been working on application-based unmanned radio-controlled aircrafts and drones with uses in different sectors of importance.

The team was invited to the Rashtrapati Bhawan at Festival of Innovation and Entrepreneurship (FINE) 2018 for demonstration of drone prototype 'Rahat PS-1925' to the honourable President and First Lady at President House, New Delhi.

The team has been awarded as Top 10 tech teams all over India for Canada-India Acceleration Program 2018, a joint initiative of AICTE, India and Carleton University, Canada.



MHRD Events



International Day of Yoga (21.06.2018)



Swach Bharat Abiyan (12.06.2018 & 17.06.2018)



Ek Bharat Shrestha Bharat (27.07.2018)

Programs-Department Wise

Department of Information Technology

B.Tech: Information Technology

M.Tech: (IT) with following specializations

- Cyber Law and Information Security
- Human Computer Interaction
- Intelligent Systems
- Robotics
- Software Engineering
- Wireless Communication Engineering

Department of Electronics & Communication Engineering

- B. Tech (ECE)
- M. Tech. (Microelectronics)
- Dual Degree B.Tech (ECE) & M. Tech Biomedical Engineering

Dual Degree B. Tech. (ECE) & MBA
Integrated M. Tech. (Microelectronics) & Ph.D

Department of Applied Sciences

B. Tech. Core courses

- Engineering Physics
- Linear Algebra
- Probability & Statistics
- Univariate and Multi variable Calculus

M. Tech:

- Bio informatics
- Biomedical Engineering

Department of Management Studies

- MBA
- Dual Degree MBA-Ph.D

Students to be awarded PhD Degree-2018

S. No.	Gender	Name	Viva-voce Held	Thesis Title in English	Supervisor(s)	Dept.
1.	Male	Akhilendra Pratap Singh	2 nd Dec.,2017	"Exploration of Flexible Service Oriented Network Architecture for Wireless Sensor Network"	Prof. O.P.Vyas & Co-supervisor Dr. Shirshu Varma	IT
2.	Female	Akansha Bansal	22 nd Dec.,2017	Surface Passivation of C-Silicon Solar Cell	Prof. B R Singh & Co-supervisor Dr. Manish Goswami	ECE
3.	Male	Utkarsh Raj	28 th Dec.,2017	"Targeting Cancer Epigenetic Regulators involved in Histone Modifications "	Dr. Pritish Varadwaj	AS
4.	Male	Bharat Singh	6 th Feb 2018	Exploring Data Analytics with special reference to Feature Selection"	Prof. O.P.Vyas	IT
5.	Female	Kalpana Singh	6 th Feb. ,2018	Development of Alternative Methodology to help derivation of Protein Structure and its Functional Sites	Prof. T.Lahiri	AS
6.	Male	Vishal Krishna Singh	7 th Feb., 2018	In-Network Inference in Wireless Sensor Networks	Dr. Manish Kumar	IT
7.	Male	Mr. Soumendu Chakraborty	10 th Feb,2018	Facial Image Description For Recognition & Retrieval	Dr. Satish K Singh & Dr. Pavan Chakraborty	IT
8.	Male	Vivek Kumar Singh	20 th Feb.,2018	Statistical Approaches for Passive -Blind Multimedia Forensics	Prof. R.C.Tripathi & Dr. Pavan Chakraborty	IT
9.	Female	Nidhi Kushwaha	20 th March,2018	Exploring Linked Open Data Cloud in Context of Recommender System	Prof. O.P.Vyas	IT
10.	Female	Niharika Anand	2 nd April,2018	Resource Constrained model for Three Dimensional Wireless Sensor Network Deployment and Localization	Dr. Shirshu Varma	IT
11.	Male	Neeraj Jain	6 th April,2018	Localization in Wireless Sensor Networks via Manifold Learning"	Prof. Shekhar Verma & Dr. Manish Kumar	IT
12.	Male	Krishna Kant Agrawal	12 th April,2018	Vibration Based Condition Monitoring for Health Assessment of Rotary Equipments	Late(Prof. G. N.Pandey) & Prof. Shekhar Verma	IT
13.	Male	Nitish K. Ojha	16 th April,2018	Development of Anomalous Behavior Detection System Using Video Data	Dr. Abhishek Vaish	IT
14.	Female	Rashmi Singh	18 th April,2018	Structural , Magnetic and Optical Studies of Spintronic Materials (Heusler Alloys & DMS)"	Dr. Pramod Kumar & Dr. Akhilesh Tiwari	AS

15.	Male	Mangal Raj P.	28 th April,2018	Analysis of Multisensory Remote Sensing Images	Prof. Anupam Agarwal	IT
16.	Male	Ratnesh P Srivastava	12 th May,2018	Development of Architecture for integration of Heterogeneous Component Frameworks	Prof. G.C.Nandi	IT
17.	Female	Anushree Tripathi	14 th May,2018	Exploring the effects of some small molecules on stem cells in therapeutics "	Prof. Krishna Mishra	AS
18.	Male	Sourabh Prakash	16 th May,2018	A Privacy-Preserving Framework for Data Storage and Retrieval on The Cloud	Dr. S. Venkatesan	IT
19.	Female	Seema Singh	17 th July,2018	Impact of Performance Appraisal System in Academic Institutions: A Study	Dr. Anurika Vaish	Manag.
20.	Male	Anush Bekal	24 th July,2018	Improved Design of Asynchronous ADC with Reduced Comparator Counts	Dr. Manish Goswami	ECE
21.	Male	Saurabh Gupta	30 th July,2018	Study of Abiotic Stress Tolerance in Cereal Crops Using Systems Genomics Approaches	Dr. Pritish Varadwaj	AS
22.	Male	Purnendu Shekhar Pandey	4 th August,2018	Implementation of Network Coding Schemes for Efficient Data Streaming over D2D assisted Cellular Network	Dr. Neetish Purohit	IT

MoU between IIIT Allahabad and University of Messina (Italy) for Academic Exchange

As per the vision of Hon Director, IIIT Allahabad an MoU signed with Univ. of Messina. This opens up the possibilities for students, scholars and faculties of both the Institutes to have mutually beneficial academic collaborations. With visit of IIIT-A student Mr Abhinav Khare to Univ of Messina during May 2018 to July 2018, the MoU gets functional as well.



Prof. O. P. Vyas (Dept. IT) signing MoU with University of Messina (Italy)

Available e-Resources in Library

Sl. No.	Name of E-Resources	URL	Content Description
1.	IEEE Digital Library	http://ieeexplore.ieee.org	eJournals/Conference Papers/Standards
2.	ACM Digital Library	http://dl.acm.org	eJournals
3.	SpringerLink	http://link.springer.com	eJournals
4.	Oxford University Press	http://www.oxfordjournals.org	eJournals
5.	Elsevier-Science Direct (Computer Science) and (Business, Management & Accounting)	http://www.sciencedirect.com	eJournals
6.	Emerald Management	http://www.emeraldinsight.com	eJournals
7.	Economic & Political Weekly	http://www.epw.in	eJournals
8.	JSTOR	http://www.jstor.org	eJournals
9.	Institute of Physics (IOP) <ul style="list-style-type: none"> • Biomedical materials • European journal of physics • Journal of semiconductors • Journal of physics D : Applied physics • Modeling and simulation in materials science and engineering • Physica scripta • Astrophysical journal 	http://librarians.iop.org/subs/-view=product	eJournals
10.	American Physical Society (APS) <ul style="list-style-type: none"> • Physical Review A • Physical Review B • Physical Review D • Physical Review Letters • Physical Review Materials 	https://journals.aps.org/	eJournals
11.	EBSCO Business Source Ultimate	http://search.ebscohost.com	eJournals
12.	Wiley <ul style="list-style-type: none"> • Transactions on emerging telecommunications technologies • Microwave and optical technology letters • International journal of RF and microwave computer-aided engineering • International journal of circuit theory and application 	https://onlinelibrary.wiley.com/	eJournals
13.	Pearson Education (E-Books Collection)	http://lib.myilibrary.com	eBooks
14.	Elsevier (E-Books Collection)	http://www.sciencedirect.com	eBooks
15.	McGraw Hill (E-Books Collection)	http://mcgrawhilleducation.pdn.ipublishcentral.com/bookshelf	eBooks
16.	World e-Book Library	http://community.worldlibrary.in/Home	eBooks
17.	South Asia Archive (SAA)	http://www.southasiaarchive.com/	eBooks/eJournals/Reports/Legislations, Acts, Regulations, Law Books-Cases/ Indian Film Booklets etc.
18.	JGate Plus (JCCC)	https://jgateplus.com	eJournal Gateway/Discovery Platform
19.	Web of Science	http://apps.webofknowledge.com	Citation indexing service / Bibliographical Database
20.	Institute of Studies in Industrial Development (ISID)	http://isid.org.in	Database

Creative SECTION

Friend...

Whenever I felt a bit gloomy,
You were there to comfort me,
Whenever I had a bright day,
You were there to share the joy,

Your helping hand was always there,
Whenever I needed a friend to care,
Your goodness, your qualities, your patience,
And inspires me is your sweet innocence.

If I am sad even for a while,
Your charming smile just makes me smile,
Whenever I think how a friend should be,
Your sweet smiling face is before me,
Just to remind that

..... A friend in need is a friend indeed.

Written by,
Vivek Nagar

Assistant Registrar (F&A), IIIT-A

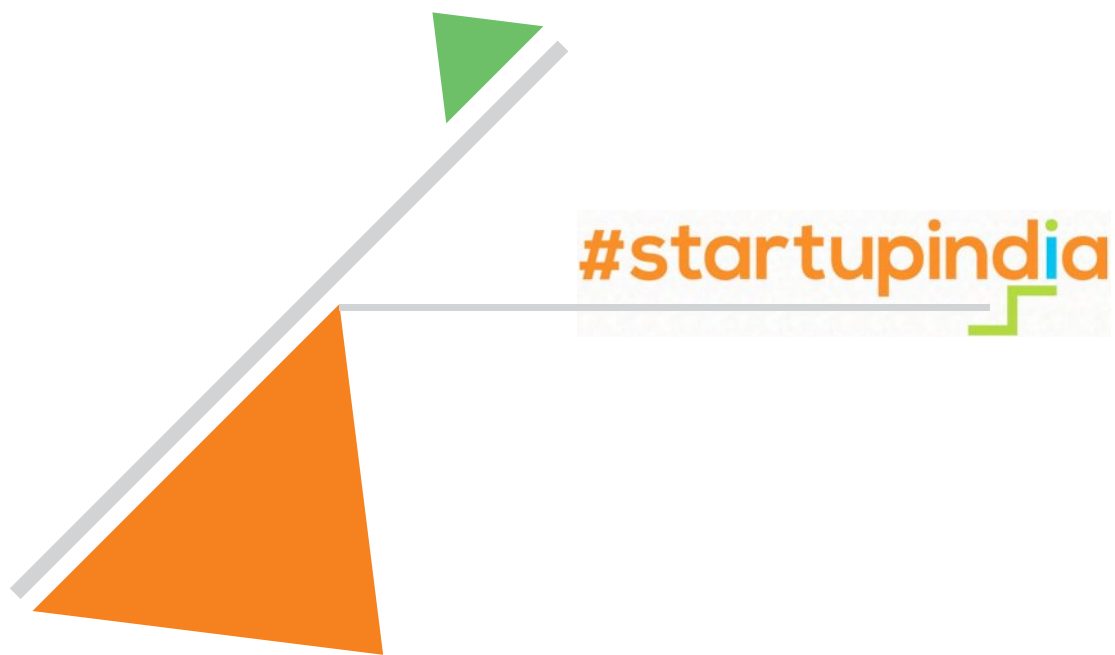
Hate

Its over, she said.
Move on, she said.
So easy if it were,
I said
then why would
they call
hate,
the opposite of love
not un-love.

- **Anurag kushwaha**
RIT2015058



Drawing by Aninidita Singh



India is a country where there is no dearth of talent or resources. So what is that is pulling us back from being the entrepreneurial hub or even a hot spot for business? The land of opportunity—The USA is standing tall and boasts high of its entrepreneurial culture and it also reaps the benefit of that congenial environment. Perhaps one big factor or rather obstacle which keeps us a drift from success is the red-tapism and lack of proper support from the government to start something new. Here, everybody thinks as a job seeker and not as a job creator. This innate sense of approach towards job is the result of years of subjugation and mundane approach from the Government when nobody thinks of anything new. The tedious paper work and the fear of filing proper intellectual rights keeps the innovator far from making it big. But times have changed and the recent think tanks under the vibrant leadership of Prime Minister Mr. Narendra Modi is fighting all odds and taking the challenge on themselves to speed up

the entrepreneurial process and bring a smile in the faces of the ones who have not taken the trodden path. The government has promised to bear the cost of filing patents and also to relax the norms of start-ups. This care of handling the protective cover by the top administration brings a sigh of relief for the innovators. A credit guarantee firm has also been established to support them financially. Such boost was very much required and has been received enthusiastically by the innovators. We hope to see more and more start-ups in India not only in online sector which already has kicked off in a superb fashion but also in other manufacturing and services sectors. Time is not far when India would be providing competition in the list of Fortune 500 companies which is now dominated by companies originating from U.S., Japan and other developed nations.

Bhartrihari Pandiya

RS 178

Dept. of Management Studies

Department of Information Technology	
Prof. P. Nagabhushan	Professor, Director
Prof. G.C. Nandi	Professor
Prof. U.S. Tiwary	Professor
Prof. O.P. Vyas	Professor
Prof. Anupam Agarwal	Professor
Prof. Shekhar Verma	Professor
Dr. Shirshu Varma	Associate Professor, Registrar(Acting)
Dr. Vrijendra Singh	Associate Professor
Dr. Pavan Chakraborty	Associate Professor
Dr. Manish Kumar	Associate Professor
Dr. Vijay Chaurasiya	Associate Professor
Dr. Satish Kumar Singh	Associate Professor
Dr. Abhishek Vaish	Asstt. Professor
Dr. S. Venkatesan	Asstt. Professor
Dr. Sonali Agarwal	Asstt. Professor
Dr. Triloki Pant	Asstt. Professor
Dr. Rahul Kala	Asstt. Professor
Dr. Bibhas Ghoshal	Asstt. Professor
Dr. Krishna Pratap Singh	Asstt. Professor
Dr. Jagpreet Singh	Asstt. Professor
Dr. Soumyadev Maity	Asstt. Professor
Dr. Mohammed Javed	Asstt. Professor
Dr. Ranjana Vyas	Faculty

Department of Management Studies	
Dr. Madhvendra Misra	Associate Professor
Dr. Vijayshri Tewari	Associate Professor
Dr. Anurika Vaish	Associate Professor
Dr. Ranjit Singh	Associate Professor
Dr. Pragya Singh	Asstt. Professor
Dr. Shailendra Kumar	Asstt. Professor
Dr. Utkarsh Goel	Asstt. Professor
Dr. Shashikant Rai	Asstt. Professor
Dr. Saurabh Mishra	Asstt. Professor
Dr. Vineet Tiwari	Asstt. Professor
Dr. Sudipta Das	Asstt. Professor

Department of Electronics and Communication Engineering	
Dr. Sanjai Singh	Associate Professor
Dr. Manish Goswami	Associate Professor
Dr. Neetesh Purohit	Associate Professor
Dr. Rajat Kumar Singh	Associate Professor
Dr. Ashutosh Kumar Singh	Asstt. Professor
Dr. Sitangshu Bhattacharya	Asstt. Professor
Dr. Prasanna Kumar Misra	Asstt. Professor
Dr. Rekha Verma	Asstt. Professor
Dr. Pooja Mishra	Asstt. Professor
Dr. Arun Kant Singh	Asstt. Professor
Dr. Suneel Yadav	Asstt. Professor
Dr. Sunny	Asstt. Professor
Dr. Seema Awasthi	Asstt. Professor

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Prof. Tapobrata Lahiri	Professor
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Dr. Pritish Varadwaj	Associate Professor
Dr. Ashutosh Mishra	Associate Professor
Dr. Sanjeev B.S.	Asstt. Professor
Dr. Akhilesh Tiwari	Asstt. Professor
Dr. Pramod Kumar	Asstt. Professor
Dr. Amit Prabhakar	Asstt. Professor
Dr. Sangeeta Singh	Asstt. Professor
Dr. Nidhi Mishra	Asstt. Professor
Dr. Abdullah Bin Abu Baker	Asstt. Professor
Dr. Sumit Kumar Upadhyay	Asstt. Professor
Dr. Ratan Kumar Saha	Asstt. Professor
Dr. Amaresh Kumar Sahoo	Asstt. Professor
Dr. Anand Kumar Tiwari	Asstt. Professor
Dr. Sintu Kumar Samanta	Asstt. Professor
Dr. Srijit Bhattacharjee	Asstt. Professor



The Road taken photo by Bhatrihari Pandiya



Photo: Dr. Mary Samuel



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