IT Happenings

A Newsletter of IT Department

VOLUME NO. 1 ISSUE NO. 1

CONTENTS

JULY 2019

DEPARTMENT OF INFORMATION TECHNOLOGY
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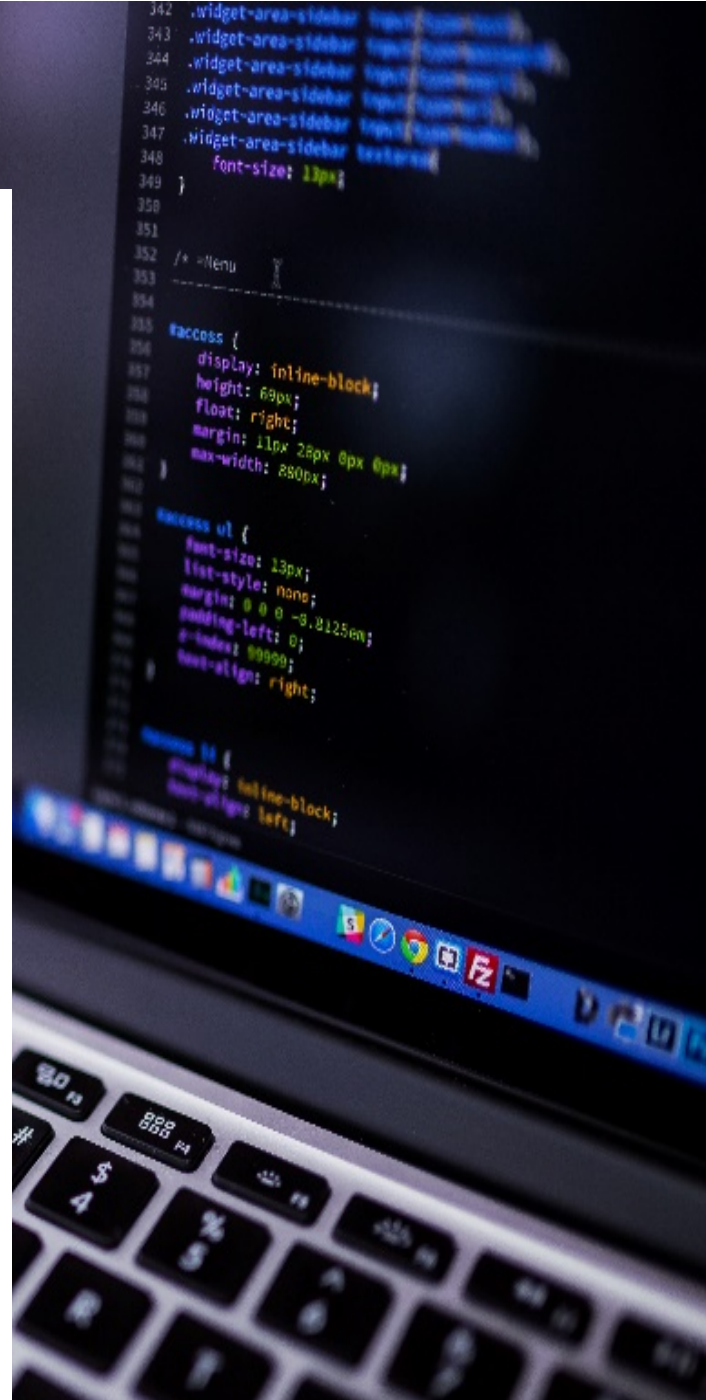
DAVIET
Dayanand Anglo-Vedic Institute
of Engineering and Technology

From the desk of HOD

Dear Readers,

Greetings!

      I feel delighted to present the first issue of our department newsletter "IT: Happenings". This is a biannual newsletter and the motive behind publishing this newsletter is to highlight the various departmental activities, achievements of faculty members and students of the department.

      The Department of Information Technology has recorded consistent improvement in its academic, research and placement performance. Reading this newsletter would definitely be an inspiration and motivation for all students and faculty and staff to contribute even more to the forthcoming issues.

With a sense of pride and satisfaction I would like to say that with the active support of the Principal, Faculty members and Students, the department newsletter has come alive. I extend my thanks to the colleagues of my department for being a part of the editorial board.

I hope that everyone would continue to give their full efforts to keep the momentum and continue to enhance the standards of the newsletter.

Dr. Dinesh Kumar
Head - IT

Editor's Message

Dear readers

It gives me an immense pleasure to launch this first edition of IT Happenings. This newsletter will serve to reinforce our ideas, allow awareness, improved interaction and build integration among all of us about Department of IT.

In this issue, we will recount the various activities in which Department of IT was actively involved for around a year.

This newsletter is intended to be published twice in a year. This inaugural issue is a brief account of the important events held during Jan 2019 to June 2019. It is expected that wide support for this mission will be provided through the reader & valuable suggestions and comments. This is only a small step towards a long journey. To achieve progress and to meet objectives we have to cross numerous milestones. This maiden issue of newsletter should inspire all of us for a new beginning enlighten with hope, confidence and faith in each other for the road ahead........

Finally, I would like to thank Dr. Dinesh Kumar, Head of Department-IT for the trust and support to serve an Editor for this newsletter.

Happy Reading!

Dr.P S Mann
AP - IT

Alumni Message

Harshdeep Singh
B.Tech – IT
Batch 2004-2008
<u>**Current Position:**</u>
Director of Operations- EMEA, Cloudwick
London, Greater London, United Kingdom

I would like to congratulate everyone in the IT team at DAVIET for starting this initiative of sharing a newsletter and thank Dr. Dinesh Kumar Sir for reaching out and allowing me to share my experience with all of you.

With over 10 years of professional experience, I am now based out of London and leading Europe and Middle East Operations of a Big Data and Advanced Analytics consulting organisation, Cloudwick Technologies.

Since my first job in 2008, I have been fascinated with the idea of Entrepreneurship and something I have developed during my bachelor's course at DAVIET with my fellow classmates and friends.

My message to all the current and future passing graduates is assimilated in the below points:

❖ This is your time to gain knowledge from your peers, teachers and mentors. We had the pleasure of having the guidance of some amazing teachers like Dr. Dinesh Kumar, Kuldeep Sharma and PS Mann. Gain as much as you can from their and other's experience. As Steve Jobs said- Stay Hungry, Stay Foolish. Best way to learn and experience.

❖ Venture out, try new things, fail fast and cheap. Technology is moving fast, try and build a solid foundation. You will be living in a world of autonomous vehicles and robotics. Prepare and brace yourself with the foundational knowledge.

❖ Soft skills- Focus on your communication. This includes writing, speaking and your body language. Companies are not just hiring good techies- they are hiring people with both soft and technical skills. Start preparing and enabling yourself with the soft skills. Self-preparation will be key to success.

I am always available for a quick chat and to share my experience with the fellow graduates from my alma-mater. If you would like to get in touch- you can email me at harshdeep@cloudwick.com or link in through LinkedIn.

I wish you all the best for all your future endeavours.

Harshdeep Singh

Departmental Profile

Department of Information Technology (DoIT)

The Department of Information Technology is a part of the DAV Institute of Engineering and Technology. The Department was established in 2002. We offer program leading to the Bachelor of Technology in Information Technology. We are a growing department with an outstanding faculty, keeping pace with the rapid proliferation of, and advances in, computing and information technology. Our commitments to quality undergraduate teaching and strong research programs provide a solid foundation for those seeking to become well-prepared, talented, and indispensable computing professionals. Approximately 250 full-time undergraduates are pursuing their degree in IT. The departmental faculty actively participates and provides leadership to major research centers on campus. Opportunities to pursue faculty supervised undergraduate research and project work are readily available The department makes extensive use of wideband connectivity to the commodity Internet Students and faculty have ready access to advanced computational hardware and software both through Institute resources as well as through our more specialized laboratory workstations. The Bachelor of Information Technology with a major in Computer Science is accredited by the, All India Council for Technical Education (AICTE), a specialized accrediting body recognized by the Council for Higher Education Accreditation.

OUR VISION

"To become pioneer in information technology education and research by creating employable personnel; empowered with technical skills on diversified technological fronts with inbuilt intellectual base at undergraduate and postgraduate levels"

OUR MISSION

M1: To produce industry ready professionals catering to the needs of IT/ITeS.
M2: To promote industry-academia interaction for bridging the gap between academic and industrial application in emerging IT Technologies.
M3: To encourage in-house development of various IT applications by under-graduates to strengthen techno-managerial skills

PROGRAM EDUCATIONS OBJECTIVES

PEO1: To empower students with substantial knowledge in mathematics, scientific and primitive engineering concepts required to solve computing problems and pursue higher studies.

PEO2: To equip students with profound knowledge about the vital information technology and allied engineering concepts to deal with industry oriented problems and develop novel products.

PEO3: To inculcate professional-social ethics, team work in students and acquaint them with requisite technical and managerial skills to attain a successful career.

PROGRAM SPECIFIC OUTCOMES

PSO1: Apply standard practices for software project development using hands-on   programming skills for analysis, design and creation of software solutions.
PSO2: Design networks and also aware of network security related issues
PSO3: Create and maintain database for providing back-end support to IT applications.

PROGRAM OUTCOMES

After the successful completion of undergraduate course IT Engineering, Graduates will be able to:

PO1. Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex engineering problems.

PO2. Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3. Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.

PO4. Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5. Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities, with an understanding of the limitations.

PO6. Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7. Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9. Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10. Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11. Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12. Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Departmental Activities

Workshop on Big Data

✓ Department organized a one day workshop on Big Data for the students of B.Tech IT 3rd & 5th Semester. Mr. Deepak Kumar, and Ms. Nisha from Nordia Ventures, Mohali delivered this workshop on 21/9/2018 in the institute. Students actively participated during the workshop and showed keen interest in learning the basics of Big data.

Workshop on Arduino & Raspberry Pi

✓ Department organized workshop on Internet of Things using Arduino and Raspberry Pi on 5/10/2018. Mr. Sanjeev Kumar from Electron Solution, Jalandhar was the resource person for this workshop. Students of B.Tech IT (3rd & 5th semester) participated in this workshop. During this workshop student learned about the bits and bytes of IoT and they had hands on experience on Arduino and Raspberry Pi

Expert Talk on Wireless System Design

✓ Expert talk on Wireless System Design was organized in the department for the students of B.Tech - IT (5th Sem) on 12/10/2018. Dr. Pooja Dand delivered this talk in the department. She discussed some of the essential components of wireless systems design with the students.

Industry Week

✓ Industry week was organized in the department from 22/10/2018 to 27/10/2018. During this industry week, students gained hands-on experience on two technologies viz. *Big Data using Hadoop* and *IoT using Raspberry Pi*. Experts from industry conducted these workshops in the department. Er. Kuldeep from CETPA Technologies, Noida and Er. Sanjeev Kumar from Electron Solution, Jalandhar were the resource persons of these workshops.

FDP on Data Science Using R

✓ Department organized an ICT based One Week Faculty Development Program on Data Science using R in collaboration with NITTTR, Chandigarh as a remote center from 26/11/2018 to 30/11/2018. Faculty members from different departments attended this course.
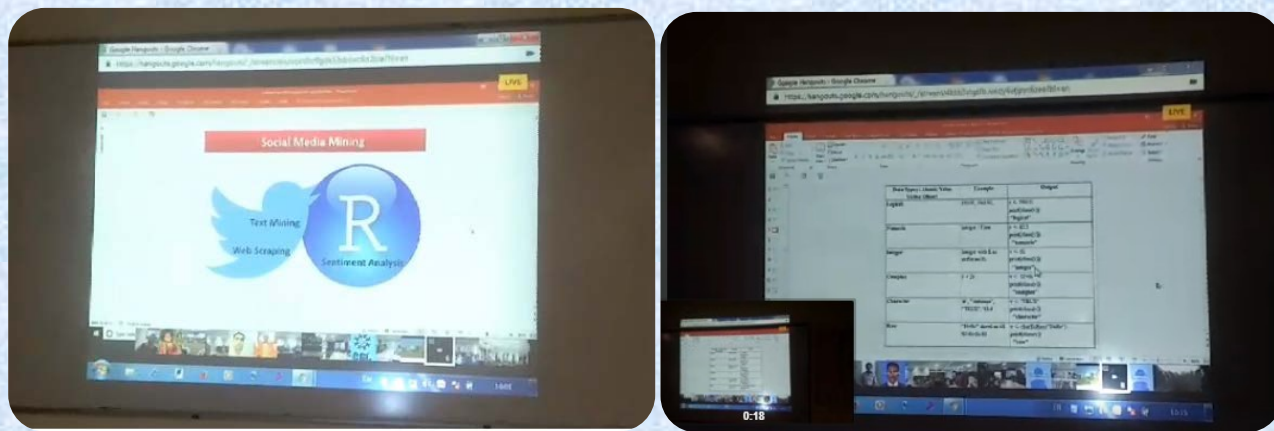
Expert Talk on Web Technologies

✓ Expert Talk on Web Technologies was organized in the department for the students of B.Tech - IT 6th Semester on 31/1/2019. Er. Chetan Sharma from OsoftMediia, Jalandhar delivered the talk on various technologies like Google AMP, PHP7, SSL etc.

Expert Talk On Cyber Security

✓ Expert talk on Cyber Security was organized in the department for the students of B.Tech IT (6th and 4th Semester) on 22/2/2019. Er. Palvinder Singh from M/s Secuneus Technologies, Jalandhar delivered talk on various cyber security related issues like Social Networking Threats for Youth,

Chat Apps Security Threats, Cyber Crime Case Studies, Smartphone Hacks and Security and many more related topics during his talk.

Workshop On Computer Networks

✓ Workshop on Router Configuration was organized in the department for the students of B.Tech IT (4th Semester) on 28/3/2019. Er. Vipin from O7 Services, Jalandhar conducted this workshop for the students. During this workshop an environment was established with actual routers and switches to show in-depth working of devices and communication within a network.
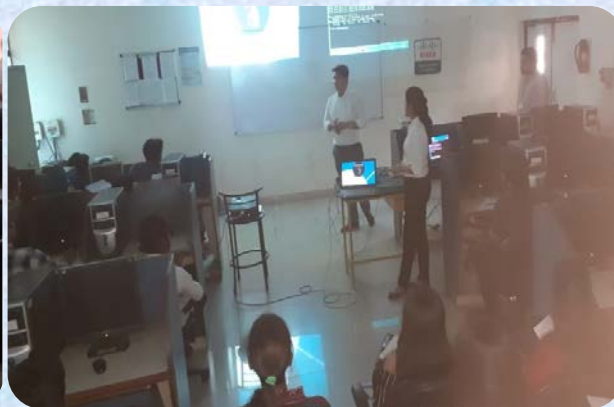
Visit to village Kagniwal

✓ Students of B.Tech – IT visited the village Kagniwal on 18/6/2019 as a part of their Post 1st Year institutional training. This visit was organized under Unnat Bharat Abhiyan Scheme of Government of India. The basic objective of this visit was to discuss and identify the socio-economic/environmental issues and problems being faced by the people of the village. After

interaction with people, students discussed these issues with faculty and fellow students to find out any possible solution to the problems faced by the villagers. Students also prepared and submitted Problem Formulation Report of this visit.

Expert Talk-cum-Workshop on Web Designing

✓ Expert Talk-cum-workshop on web technologies and web designing was organized on 19/6/2019 for the students of B.Tech – IT who were undergoing 4-week post first year institutional training in the department. Mr. Hardeep Singh- Sr. Developer / Team Leader and Ms. Loveleen Kaur- Android Developer from O7 Services Jalandhar had delivered this workshop. During their talk they demonstrated the working of various technologies and their role in designing a responsive website. Students showed keen interest in the projects shown by the experts. During the Q/A session, students asked their queries and also cleared their doubts by interacting with the experts.

Industrial Visit

Students of B.Tech – IT visited the BSNL on 20/6/2019 as a part of their Post 1st Year institutional training. During their visit they saw the various sections of the company. During their visit, Mr. Dharminder Kumar and Mr. Pankaj Kapoor illustrated the working of various networking devices.

Faculty Achievements

✓   **Dr. Dinesh Kumar** has successfully completed 12 – Weeks AICTE recognized MOOCs based course on *Machine Learning for Engineering & Science Applications* organized by IIT Madras under NPTEL program funded by Ministry of HRD, Govt. of India.

✓   **Dr. Dinesh Kumar** has completed **8 Weeks International MOOCs FDP** on **Creating Open Source Cloud based Gnomio MOODLE of your own subject for OBE** on 10 June 2019. This FDP was organized under **AICTE-UKIERI** Leadership Development Program and **Dudley College of Technology, UK**

✓   **Dr. P S Mann**, Assistant Professor - IT has successfully completed 12 – Weeks AICTE recognized MOOCs based course on *Internet of Things (IoT)* organized by IIT Kharagpur under NPTEL program funded by Ministry of HRD, Govt. of India.

✓   **Dr. Rajeev Kumar**, Assistant Professor - IT has successfully done **HCIA**-**Routing & Switching** certificationunder Huawei ICT Academy at DAVIET, Jalandhar. He has also cleared the Huawei instructor certification exams.

✓   **Mrs. Guneet Kaur**, Assistant Professor – IT has successfully completed 12 – Weeks AICTE recognized MOOCs based course on *Cloud Computing* organized by IIT Kharagpur under NPTEL program funded by Ministry of HRD, Govt. of India

✓   **Mrs. Guneet Kaur**, Assistant Professor – IT has cleared **UGC-NET**Examination - 2019

Student Achievements

- ✓ Mr. Deevanshu Malhotra (B. Tech - IT 6th) and Mr. Rupinder Singh (B. Tech - IT 4th), students of the department, have won First position in ssHACKATHAN competition organized by IIT Roorkee during National Social Summit 2019. They developed a mobile application based on Machine Learning which allows the users to read the books of their choices and also provides the recommendations to users according to their interest.

- ✓ Ms. Neha of B. Tech - IT 6th won 3rd position in Rangoli during Inter-University National Youth Festival 2018-19.

- ✓ Mr. Rahul Syal (B.Tech - IT 6th) along with 3 other members bagged Third position in the event "HACKATHON" of Advitiya 2019, organized by IIT Ropar. The team also won a cash prize of Rs. 12,000/-. They developed web application and mobile application on the theme Building computer application that would push innovation in the Arts and Entertainment Field.

- ✓ Ms. Neha of B.Tech- IT 3rd year, created a landmark for IKG PTU by winning Silver medal in Rangoli at 'Inter University North Zone Youth Festival' and Bronze medal at 'Inter University National Youth Festival'. She received memento and cash prize of Rs. 30,000 from Dr. Ajay K Sharma, Honorable Vice Chancellor of IKG PTU during prize distribution function on 11/6/2019.

Students performance in IKG PTU Sports Tournaments

✓ Ms. AnuskhaBeri of B.Tech – IT 6th Sem has won *SILVER* medal in IKG PTU Inter College Basketball Tournament – 2019

✓ Ms. AnuskhaBeri of B.Tech – IT 6th Sem has won *BRONZE* medal in IKG PTU Inter College Cycling Tournament – 2019

✓ Ms. AnuskhaBeri of B.Tech – IT 6th Sem has won *BRONZE* medal in IKG PTU Inter College Cricket (W) Tournament – 2019

✓ Ms. VarshaKumari of B.Tech – IT 6th Sem has won *BRONZE* medal in IKG PTU Inter College Cricket (W) Tournament – 2019

✓ Ms. Sharandeep Kaur of B.Tech – IT 6th Sem has won *BRONZE* medal in IKG PTU Inter College Cricket (W) Tournament – 2019

✓ Mr. Navpreet Singh of B.Tech – IT 4th Sem has won *BRONZE* medal in IKG PTU Inter College Swimming Competition – 2019

✓ Mr. Karanvir Singh Saggo of B.Tech – IT 4th Sem has won *BRONZE* medal in IKG PTU Inter College Swimming Competition – 2019

✓ Mr. Kavish of B.Tech – IT 6th Sem has *GOLD* medal in IKG PTU Inter College Chess Competition – 2019

✓ Mr. KavishJayee of B.Tech – IT 4th Sem has *BRONZE* medal in IKG PTU Inter College Handball Competition – 2019

✓ Mr. Rupinder Singh of B.Tech – IT 4th Sem has *BRONZE* medal in IKG PTU Inter College Table Tennis Tournament – 2019

✓ Mr. AnujBhalla of B.Tech – IT 4th Sem has *BRONZE* medal in IKG PTU Inter College Table Tennis Tournament – 2019

✓ Mr. Tarandeep Singh of B.Tech – IT 2nd Sem has *BRONZE* medal in IKG PTU Inter College Table Tennis Tournament – 2019

Department Faculty/Staff Profile

S.No.	Name	Designation	Qualification
1	Dr. Dinesh Kumar	Associate Professor & Head	PhD.
2	Dr. P S Mann	Assistant Professor	PhD.
3	Dr. Rajeev Kumar	Assistant Professor	PhD.
4	Mrs. Reeta Bhardwaj	Assistant Professor	M.Tech., Pursuring PhD.
5	Mr. Jaswinder Singh	Assistant Professor	M.Tech., Pursuring PhD.
6	Mr. Gagan Kumar	Assistant Professor	M.Tech., Pursuring PhD.
7	Mrs. Avani Chopra	Assistant Professor	M.Tech.
8	Mr. Rajesh Kochher	Assistant Professor	M.Tech.
9	Mrs. Rajindervir Kaur	Assistant Professor	M.Tech.
10	Mrs. Guneet Kaur	Assistant Professor	M.Tech.
11	Mr. Bhagat Singh	Network Administrator	MCA, CCNA, MBA
12	Mr. Rajesh Gandhi	Lab. Assistant	MCA, CCNA
13	Mr. Surjit Singh	Lab. Assistant	MSc - IT

Editorial Board

Chief Editor

- ➢ Dr. Dinesh Kumar, Head - IT

Editor

- ➢ Dr. P S Mann, AP – IT

Editorial Board Members

- ➢ Mrs. Avani Chopra, AP – IT
- ➢ Mrs. Guneet Kaur, AP – IT

Student Members

- ➢ Ms. Muskaan Gupta – IT 7th Semester
- ➢ Mr. Tavish Gandhi – IT 5th Semester
- ➢ Ms. PrernaKargil – IT 5th Semester
- ➢ Mr. Ankit Narang – IT 3rd Semester

What is New?

Kind Attention!!!

Please note that from next issue onwards, we are going to introduce a special section on Technical Writing. It will be a theme based section in which we would invite articles, technical reports, surveys, current research on a particular technological front. Faculty, students and alumni of the department can contribute to this section.

Fourth Coming Issues: December 2019*: Latest developments in Cloud Computing*

Please send your contributions by **30th October, 2019**.

Submissions Guidelines:

- ✓ The articles should be authored in as original text.
- ✓ Plagiarism is strictly prohibited.
- ✓ Include a brief biography of four to six line for each author with high resolution author photograph.
- ✓ Please send your article in MS-Word format to Editor at *ithappenings@davietjal.org*

Dr. Dinesh Kumar
Chief Editor