IT Happenings

A Newsletter of IT Department

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DECEMBER 2020

DEPARTMENT OF INFORMATION TECHNOLOGY

DAV INSTITUTE OF ENGINEERING & TECHNOLOGY

WWW.DAVIETJAL.ORG

EMAIL: IT@DAVIETJAL.ORG

DAVIET
Dayanand Anglo-Vedic Institute
of Engineering and Technology

f davietjal.org

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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 analyse 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 modelling 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

Expert Talk

- ✓ Department of Information Technology at DAVIET, Jalandhar has always been a front liner in providing adequate and timely knowledge and training to the students of the department. In this pandemic situations, along with regular online classes, we are also putting our efforts in arranging expert talks/seminars and workshops on upcoming technological fronts for our students so that they can learn these technological by sitting at their homes. With this objective, department has organized first expert talk, out of compendium of planned technical events, on 28/8/2020 for B.Tech- IT 3rd & B.Tech- IT 5th Semester students by Online Mode.
- ✓ The topic of the expert talk: "Data Science, Machine Learning & Artificial Intelligence: What it is & Why it Matters? "
- ✓ Guest Speaker of this event was Mr. Gurmeet Sharma, Technical Director, Eureka Electrosoft Solutions Pvt. Ltd, Chandigarh
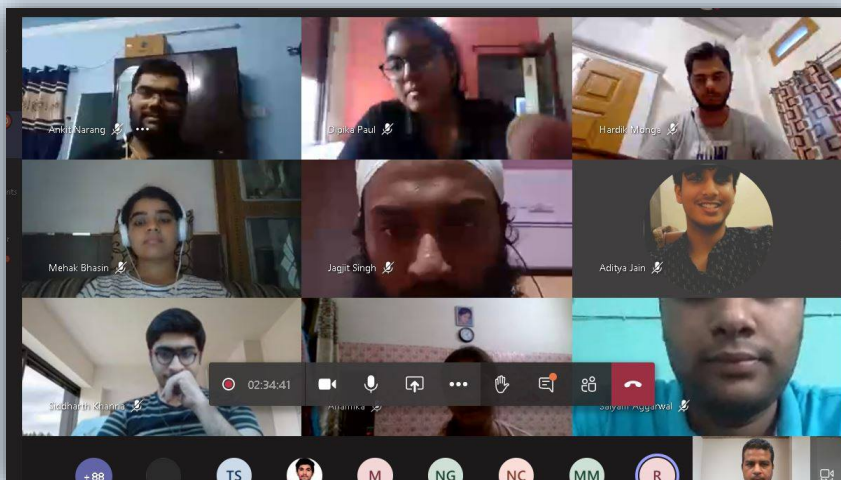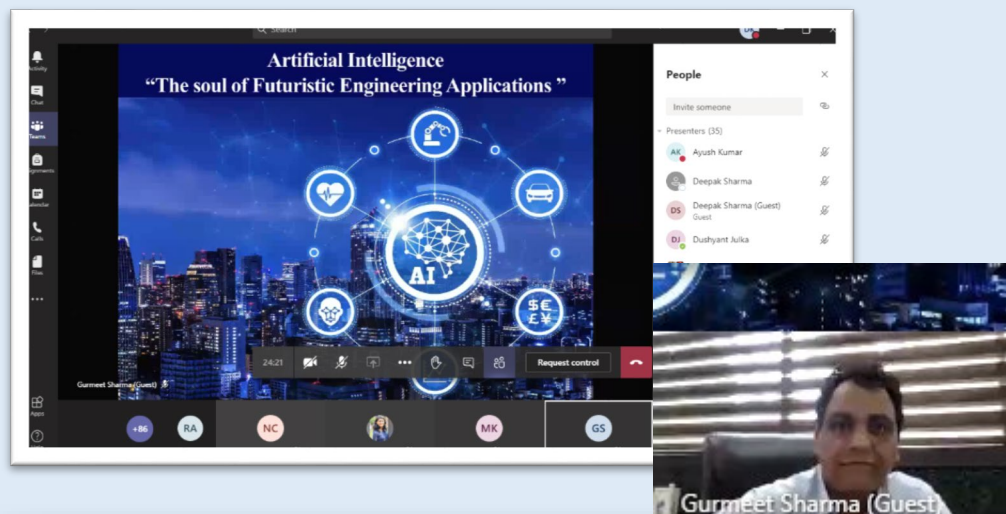
Expert Talk on Machine Learning

✓ An expert lecture on "Machine Learning" was conducted by Mr. Abhinash from CETPA, Noida on 29 October 2020 for the students of B Tech IT through Online Mode. The whole motive of this task was to make students aware about the latest advancements in the field of Machine Learning & Artificial Intelligence.

Webinar on Node.js & Angular

✓ Department of Information Technology, DAVIET organized a webinar on Node.js & Angular on 17/12/2020 under the CSI (Computer Society of India). Students from all the students of the department.

Workshop on Bug Bounty/Penetration Testing

✓ Department of Information Technology, DAVIET organized a workshop on Bug Bounty/Penetration Testing on 23/12/2020 under the CSI (Computer Society of India). Students from all the students of the department.
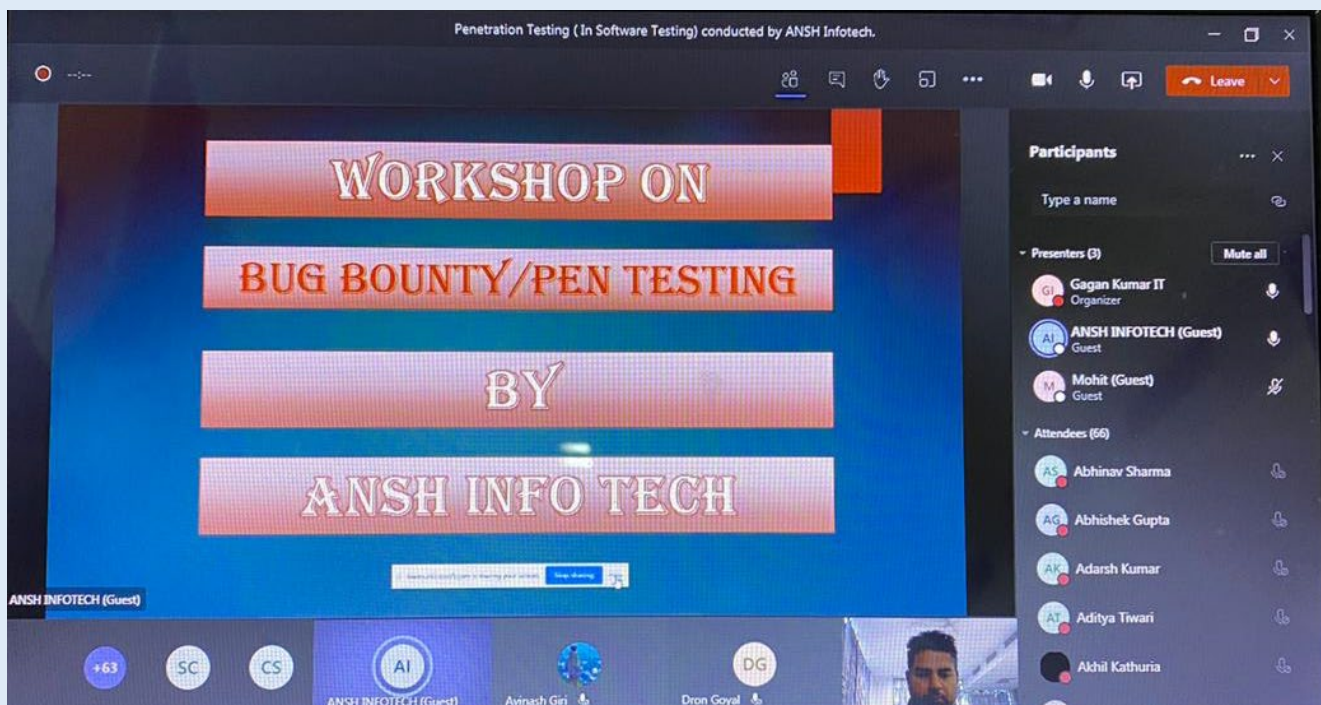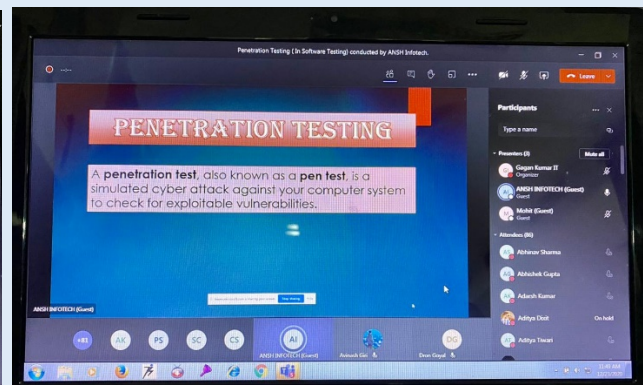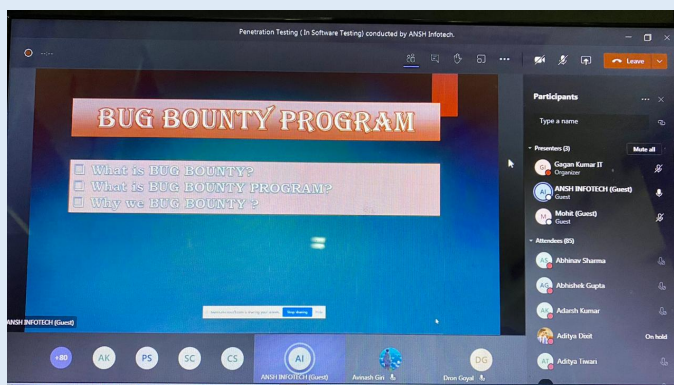
Faculty/Staff Achievements ───────────────

✓   Dr. Dinesh Kumar has attended TEQIP-III sponsored one-week MASTER CLASS on DATA SCIENCE AND ITS APPLICATIONS held on November 21-25, 2020, organized by the Department of Computer Science and Engineering, Guru Nanak Dev Engineering College, Ludhiana in Collaboration with Sabudh Foundation, Mohali, Punjab.

✓   Dr. Dinesh Kumar has One Week Online Faculty Development Program on "OUTCOME BASED EDUCATION - A Continuous Quality Improvement of the Program" Organized by Department of Computer Science and Engineering, S R K R Engineering College from 17th - 21st August 2020

✓   Dr. Dinesh Kumar has successfully completed the online Specialization Machine Learning with TensorFlow on Google Cloud Platform. This is a five course specialization from Google Cloud Training.

Student Achievements

✓ **Merit Positions in IKGPTU Examinations**

19 students of the department secured merit positions in IKG Punjab Technical University, Examinations

S.No.	Sem	Student Name	Uni Roll No.	Father's Name	SGPA	Merit
1	1	Nandini Choudhary	1903847	A.K. Choudhary	9.05	1
2	1	Aditya Banotra	1903813	Rajesh Prasad	8.78	2
3	1	Mamta Gupta	1903842	Anil Gupta	8.76	3
4	1	Ishita Seth	1903835	Rajinder Kumar	8.73	4
5	1	Jatin Wadhwa	1903838	Vinod K Wadhwa	8.73	4
6	1	Shivam Sharma	1903863	Bharat Bhushan	8.71	5
7	1	Anamika	1903818	Sanjiv Nayar	8.71	5
8	1	Harmanpreet Kaur	1903831	Ajmer Singh	8.68	6
9	1	Jagmanjeet Singh	1903836	Surinder Singh	8.68	6
10	1	Ishita	1903834	Raman K Sharma	8.61	7
11	1	Ritika Saini	1903858	Baldev Raj Saini	8.56	8
12	1	Naiya Gulati	1903846	Tilakraj Gulati	8.54	9
13	3	Aashima Mehta	1803812	Rajesh Mehta	8.43	8
14	5	Saanya Dhir	1704641	Rajiv Dhir	9	1
15	5	Prerna Kargil	1704630	Rajesh Kumar	8.84	2
16	5	Sanjana	1704578	Jaswant Lal	8.64	6
17	5	Muskan Anand	1704563	Amit Anand	8.56	8
18	5	Utkarsh	1704652	Deepak Rajput	8.52	9
19	5	Yukta	1704594	Anuj Kumar	8.48	10

✓ **MOOC Courses Attended**

Roll No.	Name	Sem	Course Name
402	Aashima Mehta	5	Front end web development with React
408	Anmol Bhalla	5	Front end web development with react
431	Mansi Kataria	5	Front-End Web Development with React Course
432	Mehakdeep Kaur	5	Front-End Web Development with React
447	Sanya gupta	5	front end web development with react

457	Tarandeep Singh	5	Front-End Web Development with React
409	Anshumann Singh	5	Introduction to HTML
460	Tushar Arora	5	Introduction to HTML
442	Rishika	5	HTML, CSS & Javascript for Web Developers
442	Rishika	5	Web Application hacking Course for beginners
460	Tushar Arora	5	Introduction to CSS
460	Tushar Arora	5	Introduction to Web Development
433	Mohit Mahajan	5	The Complete 2020 Web Development Bootcamp
434	Nikhil Kaushal	5	The Complete 2020 Web Development Bootcamp
415	Gaurav Kumar	5	Programming for Everybody
415	Gaurav Kumar	5	Python Data Structure
417	Gautam Taneja	5	Programming for Everybody
428	Manik Agnish	5	Python A-Z™: Python For Data Science With Real Exercises!
440	Rajat Agnihotri	5	Python for Everyone
408	Anmol Bhalla	5	Introduction to cyber security.
460	Tushar Arora	5	Cyber Crime and its preventive measures
433	Mohit Mahajan	5	Mathematical Foundations for Cryptography
442	Rishika	5	Certified Ethical Hacking(CEH)
442	Rishika	5	Ethical Hacking Creating A Keylogger
426	Manik Agnish	5	SQL for Data Science
460	Tushar Arora	5	Introduction To SQL
428	Manik Agnish	5	AI For Everyone
460	Tushar Arora	5	AI for everyone
437	Prabhjot singh	5	Java Programming for Complete Beginners
451	Shaurya Batra	5	Java Programming For Complete Beginners
451	Shaurya Batra	5	The Complete Android Oreo Developer Course
451	Shaurya Batra	5	The Complete Android Oreo Developer Course
436	Nikhil Kaushal	5	AWS Fundamentals: Going Cloud-Native
460	Tushar Arora	5	AWS Fundamentals: Building Serverless Applications
460	Tushar Arora	5	AWS Fundamentals : Going Cloud Native
460	Tushar Arora	5	Introduction To Virtual Reality
460	Tushar Arora	5	Introduction to Augmented Reality
448	Sayan Chakraborty	5	Computer Vision Basics
460	Tushar Arora	5	Initiating and Planning Projects
468	Navneet Kaur	5	Selenium WebDriver with Java - Basics to Advanced+ Frameworks
441	Rishika	5	Game Development

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