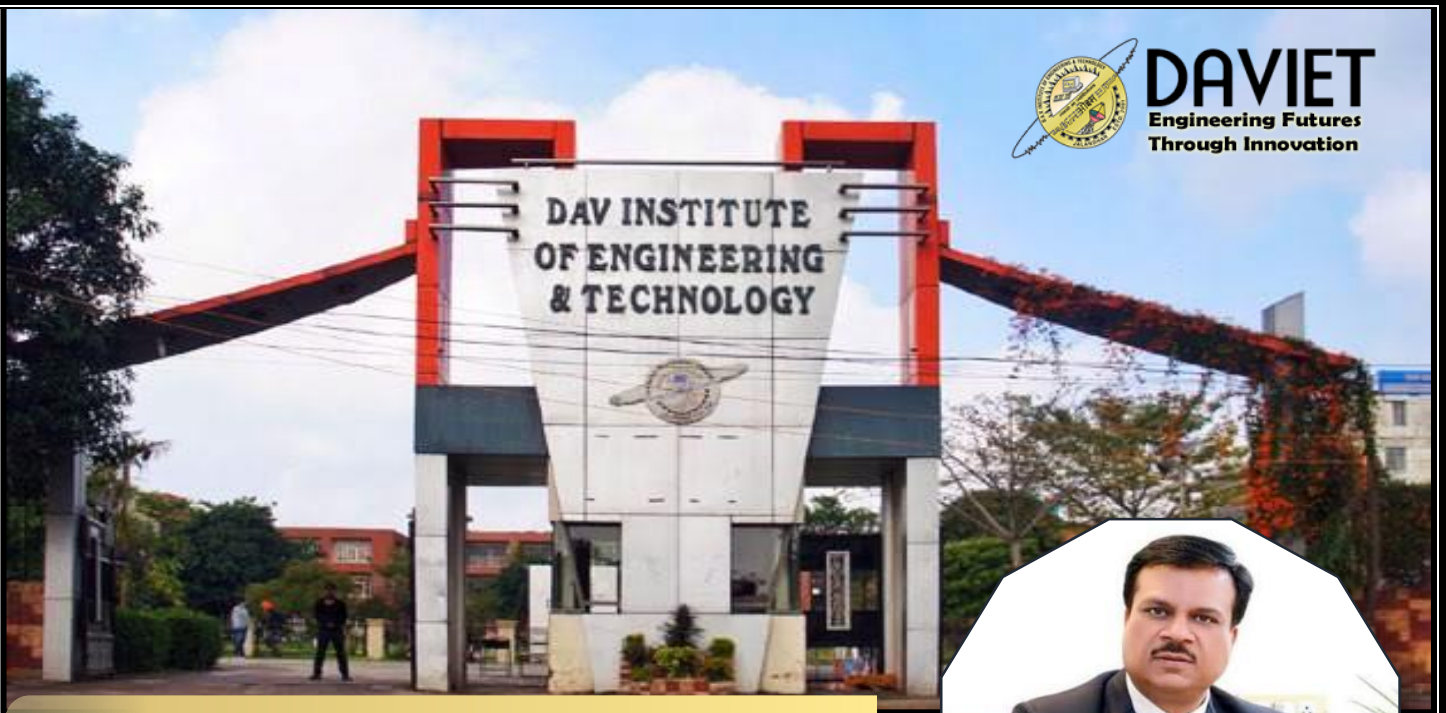# DAVIET

Dayanand Anglo-Vedic Institute
of Engineering and Technology

NEWS LETTER

2020

DEPARTMENT
OF
COMPUTER APPLICATIONS

From the Desk of PRINCIPAL

PROF. MANOJ KUMAR
PRINCIPAL, DAVIET

I am delighted and extend heartfelt greetings to the faculty and students of the Department for the release of first issue of *Newsletter* of Computer Applications. The editorial committee has performed a commendable task to publish fast paced changing trends in education and departmental achievements. But the committee not only completed the task but also published various non-technical issues such as the achievements in various cultural and sports activities.

I always believe in the prevalence of quality academic standards which ensures the transformation of every DAVIETian into a responsible and conscientious citizen of the nation. With that being said, my efforts are there to collaborate with faculty/staff and student community, in a way that positive education environment must be established and maintained. It makes me proud that our students are not only accelerating in academics but also share positions in State/Interstate level sports/arts and other cultural competitions.

I am glad to share that Department of Computer Applications has provided students with two major opportunities *"Earn while you Learn"* and *2 years Credit Transfer Programme* with two years at Daviet and two years at Canada. The students will enjoy the learning the way they want to learn and earn.

At the end, I hope the information shared in the newsletter will provide a great learning experience to our readers. Any opinion and encouragement will be highly recognized by the editors of the newsletter.

MENTOR'S DESK

DR. VINAY CHOPRA
HEAD, CA

The **Computer Applications Department** aims to make a place at both national and international level by producing high quality ethically rich computer application engineers conversant with the state-of-the-art technology with the ability to adapt the upcoming challenges in information technologies and their applications to cater to the ever changing industrial and societal needs. It is committed to provide a supportive, friendly and challenging learning and research environment. Moreover, it endeavours to establish itself as a centre of excellence in teaching and research to produce skilled human resource for sustainable nation's growth and having technological impact on the people's life. Part of our mission is to enable the students to acquire globally competence through developing their problem solving skills and exposure to latest developments in area of computer application and information technologies.

The department offers **Bachelor (BCA) and Master (MCA) of Computer Applications** programs. The programs are designed to provide a core Computer applications foundation that will equip learners with the necessary technical and research skills needed in industry and academia.

The department has a team of passionate academic staff with a wide range of research interests. The faculty members of the Computer Applications Department have very strong academic credentials who are committed and dedicated for teaching and providing a good learning environment for the student growth. Keeping this in the view the department regularly organizes various Industry weeks, seminars, conferences and workshop etc., for the benefit of faculties and students in the area of computer applications.

Highlights of the Department

1) **Earn while you learn**

20 students from each stream having more than 60% marks in the qualifying exam and excellent communication skills will get an opportunity to co-op for a job with a salary of Rs.8000 to Rs.10000 p.m. which shall be arranged by the institute.

2) **Credit Transfer 2 years at DAVIET and 2 years at CANADA**

Students pursuing BCA course at DAVIET can join Bachelor of Computer Information System (BCIS) course at University of Fraser Valley, Canada. Students pursuing BBA course at DAVIET can join Bachelor of Business Administration program at Yorkville University, Canada after completing two years at DAVIET. (Students to be selected on merit basis by University for Pathway Programme)

DAVIET Engineering Futures Through Innovation

DAV INSTITUTE OF ENGG. & TECHNOLOGY
Accredited by NAAC with "A" Grade; Approved by AICTE; Affiliated to IKG-PTU

BACHELOR OF COMPUTER APPLICATIONS
3 YEARS — **BCA**

✓ 2 yrs Credit Transfer Programme
✓ 2 yrs at DAVIET --> Next 2 yrs at CANADA
✓ EARN WHILE YOU LEARN
✓ Annual Intake - 120

ADMISSION OPEN 2020

MCA — **MASTER OF COMPUTER APPLICATIONS**
2 YEARS

✓ Now only 2 Years Course
✓ More Preferred for MNCs
✓ Assured Placements
✓ Annual Intake - 60

For more information and online registration, visit- www.davietjal.org.
ADMISSION HELPLINE: 1860-1800-126, 0181-2343400

> "The ultimate promise of *Technology* is to make us Master of a world that we command by the push of a button."

HOLISTIC DEVELOPMENT ACTIVITIES of the Department

E-POSTER MAKING COMPETITION

E-Poster making Competition was held on **11th September, 2019** for BCA 1st Year students (Batch-2019). This event was organized to sharpen the skills as well as unravel the hidden talent of the students who just entered the college. In the event, the students had to design an E-Poster (Digital Poster) on the theme **"FUTURE TRENDS IN COMPUTER TECHNOLOGY".** The students were given the prizes and certificates based on the E-posters they designed. Students participated with full enthusiasm and zeal.

When?
11 September, 2019

Where?
Oracle Certified RDBMS Lab

For?
BCA 1st Year

Students designing E-posters during the event.

Industry Week on HTML & PYTHON 2019

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ENGINEERING FUTURES THROUGH INNOVATION
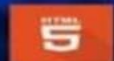
DEPARTMENT OF COMPUTER APPLICATIONS

INDUSTRY WEEK

November 4 to 6, 2019

- Python with Data Analysis
- Front-End Technologies
- Web Technologies

Excellence is a continuous process and not an accident.
Dr.A.P.J. Abdul Kalam

When?
4-6 November, 2019

Where?
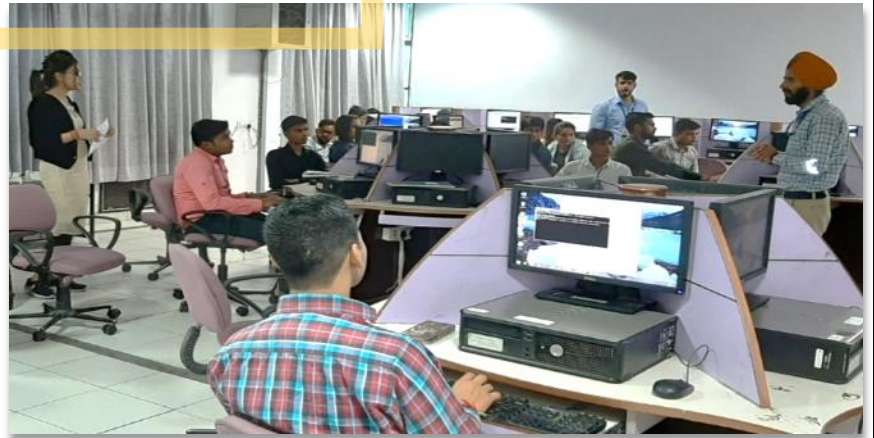RDBMS & Computer Programming Lab

For?
BCA & MCA

Live Training Workshop on **"Python with Data Analysis & Front-End Web Technologies"** was organized by Department of Computer Applications from **November 4-6, 2019** for MCA and BCA students, respectively. The MCA students were provided knowledge of various basic python concepts along with data analysis libraries. The BCA students were also imparted deep knowledge on various concepts of HTML & CSS. The students actively participated in the workshop with great enthusiasm.

Python with Data Analysis

Students being provided *hands-on training* on advanced technologies by experts during industry week.
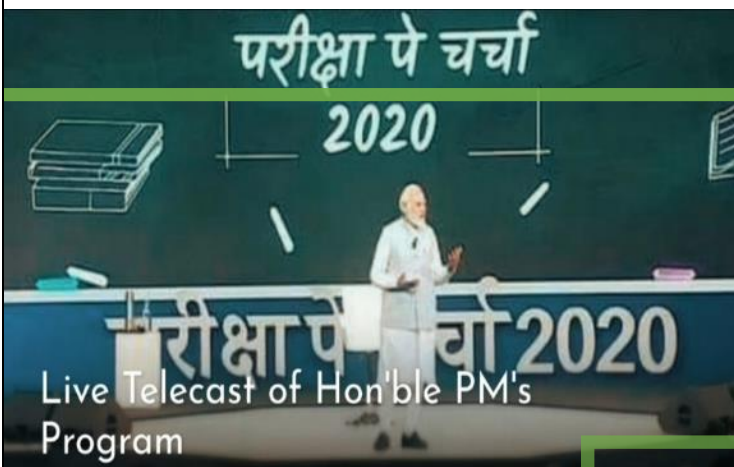

Front-End & Web Technologies

QUIZ COMPETITION (C/C++)

Quiz Competition of C/C++ was organized by the department to analyse and sharpen the programming skills of the students on 13th February, 2020.

LIVE TELECAST OF HON'BLE PM

Live Telecast screening of Honourable Prime Minister's Program *"Pareeksha pe Charcha"* was organized on January 20, 2020 to enlighten the students on exams.

Industry Week on C++ & Machine Learning 2020

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ENGINEERING FUTURES THROUGH INNOVATION

DEPARTMENT OF COMPUTER APPLICATIONS

INDUSTRY WEEK

March 9 - 13, 2020

Python with Machine Learning

Enhanced Learning with C++

Every skill you acquire doubles your odds of success.
Scott Adams

Dr. Manoj Kumar
Principal

Dr. Vinay Chopra
HOD

When?
9-13 March, 2020

Where?
Red-Hat Certified OS Lab & RDBMS Lab

For?
BCA & MCA

Hands-on Training Workshop on **"Python with Machine Learning & Enhanced Learning with C++"** was organized by Department of Computer Applications from **March 9-13, 2020** for MCA and BCA students, respectively. The MCA students were imparted deep knowledge of various basic python concepts along with Tkinter interfaces & Machine Learning algorithms, by tech experts from O7 services. The BCA students were also provided knowledge on various programming techniques in C++.

Python with Machine Learning

Workshop was successfully concluded with the minor project made by students in C++ and with Face Detection and recognition using Open CV in Python.

Enhanced Learning with C++

'MY FATHER IS MY HERO' CONTEST

👪 My Father is my Hero

Create a short story / poetry / picture / image etc. and what ever it may be that shows your love towards your father.

During these unprecedented times, our department organized an online **Contest "My Father is my Hero"** on the eve of Father's Day on **June 21, 2020** to encourage the participants to show how much they love their fathers and are thankful to him for his worthy efforts. The participants were asked to create a short **story/poetry/picture/image** etc. as a note of thanks and love towards their fathers. Many entries were received and all participants were given a certificate of appreciation for this kind effort towards their HERO.

When?
21 June, 2020

Where?
Online Platform - Google Forms

For?
Everyone

मुझे रख कर छांव में ।
खुद जलते रहे धूप में !
मैंने देखा है एक फरिश्ता ।
अपने पिता के रूप में !!

Few glimpses of the entries are shown here:

DEAR DAD

Small packling of 6 pounds
With eyes closed and cheeks round
We enter this world very happy
all because of our pappy

With time we grow
And learn 'mother tongue'
But dad gives melody
To awry song sung

We mindless freaks ask for toys
He works tirelessly
And fulfill our joys

YOU MATTER

DAV INSTITUTE OF ENGINEERING & TECHNOLOGY, JALANDHAR

CERTIFICATE OF APPRECIATION

This certificate is presented to

Sarthak Murria

For active participation in the "*Father's Day Contest*" organized
by Department of Computer Applications, DAVIET, Jalandhar
on **June 21, 2020**.

Ms. Jasdeep Kaur
Assistant Professor (CA)

Dr. Vinay Chopra
HoD (CA)

Department Club
'CYBER WARRIORS'

PUBG TOURNAMENT

Held on
10th Sept. 2018
At
AUDITORIUM
DAVIET

BCA Club **"CYBER WARRIORS"** organized **PUBG Tournament** with entry fee of Rs. 100. The Prizes for the tournament were **Rs. 1000** for **1st** Prize, **Rs. 500** for **2nd** Prize and **Rs. 250** for **3rd** Prize. The tournament was conducted according to the special instructions of the game as follows:

MAP - ERANGEL

TEAM - DUO

MATCH STRUCTURE - SINGLE MATCH

Our Students in CULTURAL Activities

ANKITA REHAL, MCA

ON-THE-SPOT PAINTING

1st POSITION

Zonal & Inter-Zonal Youth Festival 2020

Our Students in CULTURAL Activities

JASMEET PAUL, BCA

Giddha

FOLK SINGING

1st POSITION in Zonal
&
2nd POSITION in Inter-Zonal Youth Festival 2020

2nd POSITION in Lok Kalwan Mela 2020

Our Students in SPORTS Activities

PRIYANSHU, BCA

HANDBALL TOURNAMENT

Baba Banda Singh Bahadur College

Boys Team - 1st POSITION

- **PRIYANSHU**, BCA
- **SAMBHAV**, BCA
- **KARTIK**, BCA

Girls Team - 1st POSITION

- **SHIVANI**, BCA

DEPARTMENT FACULTY PROFILE

1 DR. VINAY CHOPRA
Assistant Professor & HEAD
M.Tech, Ph.D

2 MRS. JASDEEP KAUR
Assistant Professor
M.Sc, M.Phil

3 MRS. REETA BHARDWAJ
Assistant Professor
M.Tech, Pursuing Ph.D

4 MR. JASWINDER SINGH DHILLON
Assistant Professor
M.Tech, Pursuing Ph.D

5 MR. GAGAN KUMAR
Assistant Professor
M.Tech, Pursuing Ph.D

DEPARTMENT FACULTY PROFILE

6

DR. NEETU GAHLAWAT
Assistant Professor
M.Tech, Ph.D

MR. JASWINDER SINGH
Assistant Professor
MCA, Pursuing Ph.D

7

MRS. SARABJOT KAUR
Assistant Professor
M.Tech, Pursuing Ph.D

8

10

9

MS. KANIKA KAPOOR
Assistant Professor
M.Tech

MR. VIKAS SHARMA
Assistant Professor
M.Tech

Online Learning Paradigm: The New Normal

Keeping the Doors of Learning Open

Online Learning is catalyzing a pedagogical shift in how we teach and learn. There is a shift away from top-down lecturing and passive students to a more interactive, collaborative approach in which students and instructor co-create the learning process. The Instructor's role is changing from the "sage on the stage" to "the guide on the side." This is a student-centered approach in which students "co-create" their learning experience. This approach empowers students as active learners instead of just passive recipients absorbing information and reproducing it for standardized tests.

The platforms that we have used to conduct online teaching includes Google Classroom (to upload assignments, tests, practice questions, share video lectures and grading the students on performance), ZOOM (online teaching platform to conduct a virtual class connecting all students of the same class, share screen, video etc.), NPTEL, SWAYAM, MOOCS courses to engage students in an enhanced learning process, YOUTUBE for uploading our own video lectures.

The minimum requirement for students to participate in an online teaching is access to a computer, the Internet, and the motivation to succeed in a non-traditional classroom. Online Teaching provide an excellent method of course delivery unbound by time or location allowing for accessibility to instruction at anytime from anywhere. Learners find the online environment a convenient way to fit education into their busy lives. Online lecture delivery has increased student-to-teacher and student-to-student interaction and discussion; it has become a more student-centered learning environment; less passive listening and more active learning. It bundles an increased variety and creativity of learning activities such as assignments with strict deadlines, practice questions to be uploaded within a specific time-frame; address different learning styles such as through online meetings, video lectures, pdf notes etc; The students are given the deadlines by which to post their work, but when they complete that work is up to them. Due to this, students perform seriously at their end and even their parents can keep a track of their studies through an app.

The online model emphasizes an interactive learning environment, designed to stimulate dialogue between instructor and students and among students themselves. The online process requires both instructor and students to take active roles. The instructor will often act as a facilitator, organizing activities that engage students directly rather than relying too heavily on lectures and memorization. All the students are actively indulged on these platforms and after watching the video lectures and attending the online class, they are engaged

in brainstorming sessions to clear their doubts. Each and every student has actively participated and cooperated and shown a great interest in online education amidst the lockdown. Students have also shown a sense of satisfaction on each and every topic discussed on the online platforms.

MAKE **TODAY**

THE DAY TO

LEARN

SOMETHING **NEW**

By: Department Of Computer Applications

DAVIET
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ENGINEERING
FUTURES
THROUGH
INNOVATION

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