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About Himachal

Himachal ? An Educational Paradise for Students

Popularly known as the Devbhumi – "Land of the Gods", Himachal Pradesh is a beautiful hill state in India. The state is landlocked with the Tibetan plateau to the east, Jammu and Kashmir to the north, and the Punjab to the west. Himachal Pradesh has the second highest literacy rate in India next to Kerala. The standard of education in the state has reached a considerably high level as compared to other states in India with several reputed educational institutes for higher studies. The state government is working constantly to prepare plans and projects to strengthen the education system. The opening of Indian Institute of Technology, Mandi is a milestone for the Himachal Pradesh Government. Also, as a part of the Government's effort to strengthen the education system, the Himachal Pradesh Technical University, which is the affiliating university for all the Technical Colleges run in the state, keeps on upgrading its syllabi from time to time to educate the students according to the prevailing industrial scenario.

About Us

VCOE was established in the year 2010 under the aegis of Mata Vaishno Devi Educational Society with the aim to provide higher education to the Students. At VCOE, we strive to shape young minds who can excel in their respective fields. The emphasis is on developing a well rounded personality in the students who are trained to be prudent and practical with an ability to balance vision with ground reality.

Growth and evaluation are the hallmark of a vibrant institution. From this perspective the strides made by this College are impressive. We have expanded the outreach and scope of our academic activities with every passing year. The corresponding infrastructure has similarly witnessed requisite up gradation. It is a measure of our accomplishment that we have introduced PG Courses in the College. It is owing to the fast growing reputation of this College that we have students from various states.

Longitudes & latitudes

The Campus is located at Village Thapkour, PO: Bhadroya, Tehsil Nurpur, Distt. Kangra (H.P) 176403 which is at Kandwal-Bhadroya-Pathankot State highway. It is 8kms from Kandwal Barrier (HP) & 3 Kms from Chakki Bridge (Pathankot). Local buses are available from both the places every half-an-hour. Nurpur town is 20 Kms, Indora 15 Kms & Pathankot City is just 3 Kms from the Campus.

Message from Director's Desk

Modern era is driven by globalization and fast paced world economy excelling every minute at an amazing speed. Recent technological advancements have influenced our lives many fold. Every young mind today is faced with a challenge of keeping pace with the growing global changes as also to derive maximum advantages of technology revolution.

We at VCOE provide one stop platform for the emerging professionals in the field of Engineering & Technology to successfully acquire the 21st century skills. Our programs are future oriented and encourage students to acquire ideas, pursue excellence and celebrate discoveries. VCOE demands full participation from its students to develop their complete personality so they are able to stretch and increase their potential. Education at VCOE empowers students to challenge and to lead. Our endeavour is to develop employable professionals who are the best fit in their respective industry. Thus a comprehensive training program aimed at imparting soft skills, industrial skills and leadership skills is embedded in the college curriculum.

Lt. Col.(Retd.) A.K.Khajuria

Our Vision and Mission

Our Vision:

- To empower our students and staff to contribute in nation building process & development of society at large.
- To become a portal of learning, research, entrepreneurial development in Engineering Sciences.
- To produce responsible result oriented skilled manpower.
- To help young & talented students to recognize their profession through experimental learning & provide them with opportunity to think strategically & creatively.
- To provide avenues for quality improvement & updating their knowledge.
- To develop the institute into a national institute of excellence consistent with global practices in engineering and technical education.

Our Mission:

- To impart Education with a futuristic approach.
- To produce highly competent engineers and technologists, who can contribute to the task of nation building.
- To promote research, development and consultation in collaboration with engineering Industry and business houses.
- To provide knowledge and techniques for integrating technology with management
- To stimulate creative thinking and inculcate a spirit of leadership, entrepreneurship & solution finding amongst the students.
- To Work for 100% placement for our students.
- To equip the students with Technical knowledge, skill and ability and to inculcate in them right attitude and holistic values.
- To motivate them to think creatively, act independently and take decisions accordingly.
- To develop a system of meaningful interaction with the industry and to make professionals out of them so that they can be absorbed in eminent companies of their Industry where they can add value through their technical knowledge and skill.

WHY VCOE?

Though, Vaishno college of engineering is in its infancy stage, it has already made a mark in the field of engineering. VCOE has got plenty of admissions within a very small span of time. VCOE ensures that academics is not confined to the classroom or straitjacketed within a prescribed syllabi, students are encouraged to move beyond the boundaries of course content & to explore various dimensions of knowledge. VCOE provides discussion forums to fasten critical thinking and a platform for honing talent in debates, dramatics, public speaking, quizzes & so on. It is a place which provides smooth entry into a career that offers ample opportunity for progress & learning. To facilitate this, there is a training & placement cell which maintains links with business houses & potential employers, inviting the leading corporate entities from diverse industries to select & place its students.

> "VCOE provides the best to its students, to derive the best out of them."

The teaching faculty of VCOE is highly qualified, dedicated and committed to upgrading their professional acumen. The methods of teaching are innovative and are aimed at stimulating the individual thought process & creating talented students. Healthy interaction between teachers & students facilitates a very encouraging & motivating learning environment in the college. To expose the students to the best brains in their respective fields, extension lectures and seminars are organized by the college wherein eminent educationalists, subject experts & professionals are invited to deliver lectures and to conduct workshop for students. VCOE also imparts world class finishing training programs by industry experts that prepare students for specific roles in the industry thereby giving them a definite edge over others. These programs cover both 'Technical and Business skills'. The mission is set to produce globally competitive technocrats and managers.

The batch of 2010-14 truly reflects VCOE's strengths which among many include versatility, innovation, a keen interest in learning, and being able to excel in a fiercely competitive world.

Our Salient Features:

- Serene, eco friendly, pollution free ambience ideal for pursuing knowledge.
- Fully Wi-Fi Campus.
- Highly effective training and placement cell working for the 100% placement of the students.
- VGC TPO Portal on which more than 150 new job openings are uploaded every week.
- VGC ERP through which students, faculty and parents can input and access every information regarding students progress.
- Affordable fees as compared to other colleges & Private universities.
- Provision of scholarship for deserving students.
- Guest Lectures by eminent scholars from within & outside the state.
- Multifaceted, dedicated and excellent faculty.
- Excellent in campus hostel facility.

Infrastructure / Amenities

CAMPUS

The campus has been developed over an area of more than 15 acres. The complex includes spacious class rooms, seminar halls & common rooms for girls and boys, well equipped laboratories & vast playgrounds. In-campus deep bore well provides ample quantity of fresh water round the clock. Water Coolers are installed in both academic and residential areas fitted with aqua guards to provide clean drinking water to the students. In addition to the stand by generator set, a 125 KVA UPS has also been installed to provide uninterrupted power supply in the event of power failure. Separate hostel for boys and girls provide a home away from home to the boarders.

Library

VCOE library combines the virtues of classic reading with the strength of 21st century technology and it has a vast collection of text books for students besides a collection of reference Books, Journals and periodicals. More than 10% books are added every year on recommendations of both faculty members and students. The library has a separate reference section, magazine and periodical section and a reading room. Provisions for reprography, photocopy and binding are also available.

Workshop

A workshop is a place where the budding technocrats learn handling of tools and basics operations on machines. We have a well maintained workshop with latest and most advanced equipment procured from reputed brands.

Wi -Fi Campus

A dedicated 4Mbps line has been installed to provide uninterrupted internet facility round the clock with 125 KVA UPS for back up. Through this line connected with other Hi-Tech gadgets the college has created a secured Wi- Fi zone in the campus.

Lab Facility

From the very beginning VCOE has taken the lead in establishing well equipped and modern lab facilities. The mission of VCOE is to enhance knowledge and educate students in latest technology used in industry and also to understand the practical aspects of each course/subject in depth. We are committed to generate, disseminate and preserve knowledge. With this aim, the laboratories at VCOE are equipped with tools and instruments to cater to the requirements of budding technocrats.

Canteen & Stationery

A spacious canteen is functional in the campus serving hygienic snacks and refreshments. This also provides an avenue for relaxation for students and the staff. An exclusive stationery shop is available within the campus catering to the daily stationery requirements of the students including text books. Facilities like photocopying binding and lamination etc. are also available at the shop.

Computing Facility

VCOE offers a state of the art computing facility with 1:1 student to Computer ratio. The computer labs housing more than 150 networked computers cater to the computing requirements of both staff and students. The computer labs offer the latest technology based terminals connected to servers with 10 Mbps lease line connectivity.

Transportation Facility

Transportation facility has been arranged for the faculty, students and other staff at reasonable rates. College is providing buses from all near by areas such as Rehan, Nurpur, Jwali, Suluali, Fatehpur, Indora, Pathankot, Samba & Kathua.

Hostel

In-campus hostel facility is available on sharing basis for boys and girls separately. The buildings are newly constructed with spacious, ventilated, well lit and fully furnished rooms where the students can unwind after a tedious workday. Keeping in mind that study and leisure are both equally important for a student growth, a common room with television and various recreational games like Table Tennis, Chess, Carom & many other board games is available which provides the boarders an avenue for relaxation. Round the clock water supply and Captive Power Supply is available in case of a power failure. Hygienic, fresh and nutritional meals are served to the boarders seven days a week.

Facilities available:

Common Property in the room

- Electric Points
- Two Fans
- Two Tube Lights
- Dustbin

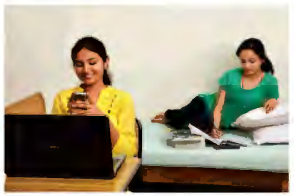
Individual Property in the room

- Bed
- Mattress
- Chair
- Side Table
- Almirah
- Bed Side Light

Others:

- Wi-fi
- Coffee Shop
- Stationary House

Check-in time in the hostel will be 6:30 P.M. in the summer and 5:30 P.M. in the winter. Evening roll call will be held on the check-in time by hostel warden.



"VGC Hostel

A Home... away from Home"

Ragging

Honorable Supreme Court of India has declared ragging a cognizable offence. Students are advised to desist from it.

What Constitutes Ragging?

Ragging constitutes one or more of any of the following acts: -

(a) Any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness, for the fresher or any other student.

(b) Indulging in rowdy or indiscipline activities by any student or students that causes or is likely to cause annoyance, hardship, physical or psychological harm or to raise fear or apprehension thereafter in any fresher or any other student.

(c) Asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, torment or embarrassment so as to adversely affect the psyche or physique of such fresher or any other student.

(d) Any act by a senior student that prevents, disrupts or disturbs the regular academic activity of any other student or a fresher.

(e) Exploiting the services of a fresher or any other student for completing the academic tasks assigned to an individual or a group of students.

(f) Any act of financial extortion or forceful expenditures burden put on a fresher or any other student by students.

(g) Any act of physical abuse including variants of it, sexual abuse, homosexual assault, stripping, forcing obscene and lewd acts, and gestures, causing bodily harm or any other danger to health or person.

(h) Any act or abuse by spoken words, emails, posts, public insults which would also include desiring perverted pleasure, Vicarious or sadistic thrill from actively or passively participating in the discomfiture to the fresher any other student.

(i) Any act that affects the mental health and self confidence of a fresher or any other student with or without an intent to derive a sadistic pleasure or without an intent to derive a sadistic pleasure a showing off power, authority or superiority by a over any fresher or any other student.

Administrative Actions in the event of Ragging

The college shall punish a student found guilty of ragging after following the procedure in the manner prescribed here in under: -

(1) The anti ragging committee of the college shall take an appropriate decision, in regard to punishment or otherwise, depending upon the facts of each incident of ragging and nature and gravity of the incident of ragging established in the recommendations of Anti-Ragging Squad.

(2) The Anti-Ragging Committee may, depending on the nature and gravity of the guilt established by anti ragging squad, give, to those found guilty, one or more of the following punishments, namely: -

(a) Suspension from attending the classes and academic privileges.
(b) Withholding/withdrawing scholarships or other benefits.
(c) Debarring from appearing in any test/examination or any other evaluation process.
(d) Withholding results.
(e) Debarring from representing the institution in any regional, National or international meet, tournament, youth festival etc.
(f) Suspension / expulsion from the hostel.
(g) Cancellation of admission.
(h) Rustication from the institution for a period ranging from one to four semesters.
(i) Expulsion from the institution and consequently debarring from admission to any other institution for a specified period.

(3) Provided that where the persons committing or abetting the act of ragging are not identified, the college shall resort to collective punishment.

Courses Offered

1. Bachelor of technology (B.Tech)

(Duration: 4 years)

Stream

- Civil Engineering
- Mechanical Engineering
- Electrical Engineering
- Electronics and Communication Engineering
- Computer Science Engineering

Approval and Affiliation: Approved by AICTE, HP Government and Affiliated to HP Technical University.

Eligibility:

Passed 10+2 examination with Physics and Mathematics as compulsory subjects along with one from Chemistry / Biotechnology / Biology / Technical Vocational subject and obtained at least 45% marks (40% in case of candidate belonging to reserved category) in the above subjects taken together.

Lateral Entry in B.Tech:

Eligibility:

Passed Diploma examination from an AICTE approved Institution; with at least 50% marks (45% in case of candidates belonging to reserved category) in appropriate branch of Engineering / Technology.

- Compatibility for Lateral Entry:

Sr. No	Diploma Programs	Degree Programs
1.	Civil Engineering /Architecture Assistantship	Civil Engineering /Architecture
2.	Electrical Engineering / Electrical & Electronics Engineering	Electrical Engineering / Electrical & Electronics Engineering/Electronics and Communication Engineering
3.	Mechanical Engineering	Mechanical Engineering
4.	Automobile Engineering / Production Engineering	Mechanical Engineering
5.	Electronics & Communication Engineering	Electronics & Communication / Electrical / Electronics Engineering
6.	Computer Engineering	Computer Science & Engineering/Information Technology
7.	Information Technology	Information Technology/Computer Science & Engineering
8.	Instrumentation Engineering	Mechanical /Electronics & Communication / Electrical & Electronics Engineering
9.	Textile technology / Textile Chemistry / Textile Design / Textile Printing / Knitting Technology	Textile Engineering

2. Diploma Courses

(Duration: 3 years)

Stream

- Civil Engineering
- Mechanical Engineering
- Electrical Engineering
- Electronics and Communication Engineering

Approval and Affiliation: Approved by AICTE, HP Government and Affiliated to HP Technical Board.

Eligibility:

Passed class 10th/SSC examination with at least 35% marks.

Lateral Entry in Diploma

(Direct admission to second year)

Eligibility:

- Either Passed class 12th Science or class 12th Science with Vocational or class 12th Science with Technical or class 10th + (2 years ITI) with appropriate specialization.

Admission Procedure:

For seeking admission in any of the courses offered by us, the candidates can apply online or approach our campus or any of our admission offices.

Steps for online admission:

- Fill the online admission form.
- Scan the documents and mail them at **admission@vaishno.edu.in** for verification.
- After verification of documents and confirmation of eligibility, deposit the fee in the account of Mata Vaishno Devi Educational Society at any HDFC branch across India through **NEFT/RTGS**.

  Below are the account details:

  (a) Account Holder name: Mata Vaishno Devi Educational Society.
  (b) Account Number: 50200018639230
  (c) Bank: HDFC Bank
  (d) Branch: Pathankot
- Scan the Fee Deposit Receipt and mail it at admission@vaishno.edu.in

Note: Admission will be treated provisional till the production and verification of the original testimonials.

Steps for admission at our campus or any of our admission offices:

- Visit our campus or any of our admission offices across India. Below are the addresses of our admission offices :

  (a) **Campus:** Village Thapkour, P.O. Bhadroya, Tehsil Nurpur, District Kangra (H.P) – 176403
  (b) **Jammu Office:** 7 B/C, Government Hospital Road, Gandhi Nagar, Jammu(J&K) - 180004
- Carry your original testimonials and get them verified from the college.
- Fill the admission form.
- Deposit full fee for 1st semester and get your admission confirmed.

Documents to be Submitted:

(a) High School/HSC Examination/Matric/10th Pass Certificate and Marksheet.
(b) Intermediate/SSC Examination/10+2 Pass Certificate and Marksheet.
(c) Marksheet and Pass Certificate of the Graduation Course for Admission to P.G. Courses.
(d) Marksheet and Pass Certificate of the Diploma course for Lateral Entry Admission.
(e) Marksheet of AIEEE if available.
(f) Caste Certificate
(g) Transfer Certificate/School Leaving Certificate
(h) Migration Certificate
(i) Character Certificate
(j) Income Certificate (For availing scholarship schemes by the Government)
(k) Bonafide/State Subject
(l) 04 Passport size Photographs
(m) Gap Certificate(If any gap after previous education)
(n) 10 Self Addressed envelope with Rs. 5 stamp Affixed.
(o) Affidavit against ragging by student and parents.
(p) Aadhar Card.
(q) Pan Card.

Scholarship Schemes

1. Scholarship for J&K students belonging to SC/ST Category

Under this scheme, eligible students have to apply to the Department of Social Welfare, J&K Government on the prescribed form, available at the Social Welfare offices across the state. Completed forms along with following documents and duly endorsed by the college authorities are submitted to the Department of Social Welfare for release of scholarship.

(a) State Subject.
(b) Income Certificate from the employer or tehsildar.
(c) Bonafide certificate from the college.

Once the college receives the scholarship, the fee paid by the students at the time of admission, is refunded to him. **Till date 123 students of our college have benefitted from this scheme.**

2. Special scholarship scheme for the student of J&K studying outside the state by MHRD, Govt. of India.

Under this scheme, all the students belonging to J&K who are studying outside the state and whose parent's maximum income is Rs 4.5 Lacs per annum are eligible to apply for it. A total of 250 scholarships are available for the engineering students with Rs 1.25 lac per annum being the maximum limit for tuition fee and Rs 1 Lac maximum for hostel and incidentals that will be paid as actual.

The scholarship would be sanctioned based on eligibility certificates, admission certificates and other documents presented by the students and will be paid to selected students through the college. The process of submission of documents should be completed within 15 days from the date of admission.

The form can be downloaded from the website of AICTE at http://www.aicte-india.org/JnKadmissions.html and can be submitted either directly to AICTE or through the college. AICTE after verification of forms will forward the same to MHRD, Govt. of India. The fee paid by the students at the time of admission will be refunded to him once the college receives the scholarship in his favour.

Documents required - The students are required to provide the following documents

(a) Certificate of domicile of the state of J&K.
(b) Certificate of Income.
(c) Requisite certificate if claiming Scholarship under reservation quota.

Scholarship granted under this scheme can be renewed within subsequent classes, subject to good conduct and maintenance of prescribed attendance. Students failing to get promoted to the next class would get the scholarship in the following year, subject to the condition if the student fails again for the second time, then he/she would forfeit the scholarship and the same would not be renewed in the subsequent years. Last year, 19 students of our college hailing from J&K have been benefitted under this scheme.

3. Post Matric Scholarship under the department of social Justice and Empowerment, HP for students belonging to SC, ST and OBC Categories

Under this scheme, students studying in the AICTE approved institutions, belonging to SC, ST and OBC categories and whose parents' total income is less than Rs 2 Lac per annum from all sources are eligible for scholarship.

To claim scholarship under this scheme, the institution has to forward the list of eligible students to The Directorate of Technical Education, Vocational and Industrial Training along with the following documents.

(a) Category Certificate issued by the competent authority
(b) Income certificate issued by the competent authority to the effect that family income from all sources does not exceed Rs. 2 Lac per annum.
(c) UID NO of the student

Departments

Department of Computer Science Engineering

The Objective of the department of Computer Sciences is to impart quality education and state of art training to the students, exposing them to the current and developing areas of computer sciences and Engineering. The department has state of art facilities and a highly dedicated, multi disciplinary and committed faculty.

Lab Facilities

- C++ Programming Lab
- Data Structure Lab
- DBMS Lab
- Operating System Lab
- Computer Networks Lab
- Core Java Lab
- Computer Graphics Lab
- Advanced Java Lab
- Modeling & Simulation Lab
- Cloud Computing Lab
- Computer Programming Lab

Faculty of C.S.E

- Dr. Gurvinder Singh	(Ph.D)
- Mr. Abhilash Sharma	(M. Tech./Ph.D-Pursuing)
- Mr. Anuj Sharma	(M. Tech)
- Mr. Bhuvnesh Pathania	(M.Tech)

Faculty of Management

Ms. Neha Pathania	MBA
Ms. Panku Verma	MBA

SYLLABUS (Branch CSE)

Semester 1

Subject
English Communication Skills
Engineering Math - I
Engineering Physics
Engineering Mechanics
Computer Fundamentals & Programming in C++
Engineering Drawing & Graphics
Environmental Science

Lab Name
Communication Lab
Engineering Physics Lab
Computer Programming Lab

Semester 2

Subject
Business Communication
Engineering Math - II
Engineering Chemistry
Principles of Electrical Engg.
Fundamentals of Electronics Engg.
Workshop Technology
Disaster Management

Lab Name
Engineering Chemistry Lab
Electrical Engineering Lab
Electronics Engineering Lab

Semester 3

Subject
Probability & Statistics
Industrial Economics & Management
Data Structures
Object Oriented Programming Using C++
Digital Electronics
Computer Architecture & Organization
Open Elective - I

Lab Name
Data Structures Lab
C++ Programming Lab
Digital Electronics Lab

Semester 4

Subject
Optimization & Calculus of Variations
Human Values & Professional Ethics
Data Base Management System
Operating System
Theory of Computation
Microprocessor & Peripherals
Open Elective - II

Lab Name
Data Base Management System Lab
Microprocessor & Peripherals Lab
Open Elective - II

Semester 5

Subject
Computer Networks
Core Java
Computer Graphics
Artificial Intelligence & Expert System
Software Engineering
Analysis & Design of Algorithm
Open Elective - III

Lab Name
Computer Graphics Lab
Computer Networks Lab
Core Java Lab
Industrial Training (Viva - Voce)

Semester 6

Subject
Advance Java
Distributed Operating System
Compiler Design
Linux Administration
Data Mining & Data Warehousing
Modeling & Simulation
Programme Elective - I

Lab Name
Advanced Java Lab
Modeling & Simulation Lab
Seminar

Semester 7

Subject
Advanced Computer Architecture
Wireless & Mobile Computing
Information Security
Cloud Computing
Programme Elective - II

Lab Name
Cloud Computing Lab
Project Work - I
Industrial Training (Viva - Voce)

Semester 8

Subject
Programme Elective - III
Programme Elective - IV
Project Work - II
Industrial Project

Lab Name
Web Technology Lab
Project -II
General Proficiency

Department of Electronics and Comm. Engineering

The ECE curriculum provides a wide perspective in the field of Electronics and Communication and allows the students to decide their future directions from the very beginning. We have taken the lead in establishing well equipped and modern labs for the students.

Lab Facilities

- DSP Lab
- MATLAB
- Electronics Engg. Lab
- Digitial Electronic Lab
- Analog Electronics Lab
- Power Electronics & EMMI Lab
- Microprocessor & Peripheral Lab
- Elect. Workshop & Analog Comm. Lab
- Microwave & Optical Communication Lab
- Pulse Shaping, Wave Generation And LIC Lab.
- Advance Microcontroller for Embedded System Lab.

Faculty of E.C.E.

- Mrs. Vandana Mahajan (M.tech)
- Ms. Sweta Sinha (M.tech)
- Mr. Rishabh Kumar (M.tech)

Faculty of Applied Physics

Ms. Indu Sharma M.Sc

SYLLABUS (Branch ECE)

Semester 1

Subject
English Communication Skills
Engineering Math - I
Engineering Physics
Engineering Mechanics
Computer Fundamentals & Programming in C++
Engineering Drawing & Graphics
Environmental Science

Lab Name
Communication Lab
Engineering Physics Lab
Computer Programming Lab

Semester 2

Subject
Business Communication
Engineering Math - II
Engineering Chemistry
Principles of Electrical Engg.
Fundamentals of Electronics Engg.
Workshop Technology
Disaster Management

Lab Name
Engineering Chemistry Lab
Electrical Engineering Lab
Electronics Engineering Lab

Semester 3

Subject
Probability and Statistics
Industrial Economics and Management
Analog Electronics
Digital Electronics
Networks Analysis & Synthesis
Signals & System
Open Elective-I

Lab Name
Analog Electronics Lab
Digital Electronics Lab
MATLAB & Its Applications in Signals and Systems

Semester 4

Subject
Analog Communication
LIC
Pulse Shaping And Wave Generation
Microprocessors & Peripherals
Humans Values & Professional Ethics
Optimization and Calculus of Variation
Open Elective - II

Lab Name
Electronic Workshop & Analog Communication Lab
Pulse Shaping, Wave Generation & LIC Lab
Microprocessors & Peripherals Lab

Semester 5

Subject
Digital Communication
Electromagnetic Filed Theory
Electronic Logic Circuit Design
Electronic Measurement & Measuring Instruments
Power Electronics
Introduction to Microcontroller
Open Elective - III

Lab Name
Power Electronics & EMMI Lab
Introduction to Microcontroller Lab
MATLAB and Its Applications in Communication System

Semester 6

Subject
Advanced Microcontroller
Antenna & Wave Propagation
Control System
Digital Signal Processing
Microelectronics Technology
Wireless and Mobile Communication
Open Elective-1

Lab Name
Advanced Microcontollers for Embedded Systems Lab
Digital Signal Processing Lab
Seminar

Semester 7

Subject
VLSI Design
Optical Communication
Microwave & Radar Engineering
Computer Networks & Data Communication
Programme Elective - II

Lab Name
Project Work - I
Microwave & Optical Communication Lab
Industrial Training Evaluation

Semester 8

Subject
Program Elective - III
Program Elective - IV
Project Work - II

Lab Name
Industrial Project

Department of Electrical Engineering

Electrical Engineering has a great influence in almost all spheres of our life therefore Electrical Engineers by virtue of their profession are involved in all areas of our modern society. They design, develop, test and manufacture the electrical equipment. The range of such equipment varies from power generators, transmission devices to home appliances.

Lab Facilities

- Electrical Engg. Lab
- Electrical Machine Lab-1
- Electrical Machine Lab-2
- Power Electronic Lab
- Control Engg. Lab
- Switch Gear & Protection Lab
- EMMI Lab

Faculty of Electrical Engg.

- Mr. Rajesh Kumar Bhatti (M.Tech)
- Mr. Pankaj Sharma (M.Tech)
- Mr. Munish Chowdhary (M.Tech)
- Mr. Pushkar Raj (M.Tech)

Faculty of Applied Chemistry

Ms. Poonam Pathania M.Sc.

SYLLABUS (Branch EE)

Semester 1

Subject
English Communication Skills
Engineering Math - I
Engineering Chemistry
Principles of Electrical Engg.
Fundamentals of Electronics Engg.
Workshop Technology
Disaster Management

Lab Name
Engineering Chemistry Lab
Electrical Engineering Lab
Electronics Engineering Lab

Semester 2

Subject
Business Communication
Engineering Math - II
Engineering Physics
Engineering Mechanics
Introduction to Computer Fundamentals & Prog. in C++
Engineering Drawing & Graphics
Environmental Science

Lab Name
Communication Lab
Engineering Physics Lab
Computer Programming Lab

Semester 3

Subject
Probability and Statistics
Industrial Economics & Management
Electrical Machine - I
Power Electronics - I
Digital Electronics
Network Analysis and Synthesis
Open Elective - I

Lab Name
Electrical Machine Lab - I
Power Electronics Lab - I
Digital Electronics Lab

Semester 4

Subject
Optimization & Calculus of Variation
Human Value & Professional Ethics
Electrical Machine - II
Electrical Measurement & Measuring Instrument
Transmission & Distribution of Electrical Power
Communication Engineering
Open Elective - II

Lab Name
Electrical Machine Lab - II
Electrical Measurement & Measuring Instrument Lab
Electrical Simulation Lab - I

Semester 5

Subject
Power Electronics - II
Linear Control System
Electrical Power Generation
High Voltage Engg.
Electromagnetic Filed Theory
Flexible AC Transmission System
Open Elective - III

Lab Name
Power Electronics Lab II
Linear Control System Lab
Electrical Simulation Lab II

Semester 6

Subject
Switchgear & Protection
Microprocessors & Applications
Power System Analysis
Digital Signal Processing
Electrical Energy Utilization
Programme Elective - I
Electrical Drives

Lab Name
Switchgear & Protection Lab
Microprocessors & Applications Lab
Seminar

Semester 7

Subject
Energy Management
Electrical Power Quality
Non - Conventional Electrical Power Generation
Electrical Machine Design
Programme Elective - II

Lab Name
Project Work - I
Industrial/Practical Training
Electrical Simulation Lab - III

Semester 8

Subject
Programme Elective - III
Programme Elective - IV
Project Work - II

Lab Name
Industrial Project

Department of Civil Engineering

Civil Engineering involves planning, designing & execution of infrastructure activities, viz buildings, roads, kingdoms etc and offers a multitude of career opportunity. A Civil Engineer requires not only a high standard of engineering knowledge but also supervisory & administrations skills.

Lab Facilities

- Building Material Testing Lab
- Fluid Mechanics Lab
- Surveying Lab
- Geotechnical Lab
- CAD Lab
- Transportation Lab
- Environmental Engg. Lab
- Concrete Technology Lab
- Engineering Geology & Rock Mechanics Lab

Faculty of Civil Engg.

- Dr. Arjun Kumar	(Ph. D.)
- Mr. Kanav Mehta	(M.Tech)
- Mr. Akshit Mahajan	(M.Tech)
- Ms. Shikha	(M.Tech)
- Mr. Ramit Thakur	(M.Tech)
- Mr. Abhinav Sharma	(B.Tech)

Faculty of Applied Mathematics

Mr. Avikar Sharma	Ph.D, M.Phill
Mr. Narinder Kumar	M.Sc, M.Phill

SYLLABUS (Branch CE)

Semester 1

Subject
English Communication Skills
Engineering Math - I
Engineering Physics
Engineering Mechanics
Computer Fundamentals & Programming in C++
Engineering Drawing & Graphics
Environmental Science

Lab Name
Communication Lab
Engineering Physics Lab
Computer Programming Lab

Semester 2

Subject
Business Communication
Engineering Math - II
Engineering Chemistry
Principles of Electrical Engg.
Fundamentals of Electronics Engg.
Workshop Technology
Disaster Management

Lab Name
Engineering Chemistry Lab
Electrical Engineering Lab
Electronics Engineering Lab

Semester 3

Subject
Probability & Statistics
Industrial Economics & Management
Mechanics of Solids
Mechanics of Fluids - I
Engineering Surveying - I
Building Materials
Open Elective - I

Lab Name
Building Material Testing Lab
Fluid Mechanics Lab
Surveying Lab - I

Semester 4

Subject
Optimization & Calculus of Variations
Human Values & Professional Ethics
Structural Analysis - I
Geotechnical Engineering Lab - I
Engineering Surveying - II
Building Plaining & Construction
Open Elective - II

Lab Name
Geotechnical Engineering Lab - I
Surveying Lab - II
Computer Aided Building Drawing Lab

Semester 5

Subject
Kinematics of Machines
Manufacturing Technology - II
Heat Transfer
Machine Design
Automobile Engineering
Materials Technology
Open Elective - III

Lab Name
Transportation Engineering Lab
Environmental Engineering Lab
Computer Aided Design Practice Lab - I

Semester 6

Subject
Computer Aided Design And Manufacturing
Measurement And Control
Machine Design - II
Operation Research
Thermal Engineering
Dynamics of Machinery
Programme Elective - I

Lab Name
Engineering Geology & Rock Mechanics Lab
Concrete Technology Lab
Seminar

Semester 7

Subject
Limit State Design of Metal Structures
Quantity Survey & Valuation
Irrigation & Design of Hydraulic Structures
Construction Engineering & Management
Programme Elective - II

Lab Name
Project Work - I
Industrial/Practical Training (Viva - Voce)
Computer Aided Design Practice Lab - II

Semester 8

Subject
Project Work - II
Program Elective - III
Program Elective - IV

Lab Name
Industrial Project

Department of Civil Engineering

Civil Engineering involves planning, designing & execution of infrastructure activities, viz buildings, roads, kingdoms etc and offers a multitude of career opportunity. A Civil Engineer requires not only a high standard of engineering knowledge but also supervisory & administrations skills.

SYLLABUS (Branch CE)

Semester 1

Subject
English Communication Skills
Engineering Math - I
Engineering Physics
Engineering Mechanics
Computer Fundamentals & Programming in C++
Engineering Drawing & Graphics
Environmental Science

Lab Name
Communication Lab
Engineering Physics Lab
Computer Programming Lab

Semester 2

Subject
Business Communication
Engineering Math - II
Engineering Chemistry
Principles of Electrical Engg.
Fundamentals of Electronics Engg.
Workshop Technology
Disaster Management

Lab Name
Engineering Chemistry Lab
Electrical Engineering Lab
Electronics Engineering Lab

Semester 5

Subject
Kinematics of Machines
Manufacturing Technology - II
Heat Transfer
Machine Design
Automobile Engineering
Materials Technology
Open Elective - III

Lab Name
Transportation Engineering Lab
Environmental Engineering Lab
Computer Aided Design Practice Lab - I

Semester 6

Subject
Computer Aided Design And Manufacturing
Measurement And Control
Machine Design - II
Operation Research
Thermal Engineering
Dynamics of Machinery
Programme Elective - I

Lab Name
Engineering Geology & Rock Mechanics Lab
Concrete Technology Lab
Seminar

Lab Facilities

- Theory of Machine Lab
- Strength of Materials Lab
- Fluid Mechanics Lab
- Heat Transfer Lab
- Turbo Machines Lab
- CAD Lab
- Design and Simulation Lab
- I.C. Engines Lab
- Manufacturing Practice Lab
- CAD/CAM Lab
- Automation and Robotics Lab
- Thermal Engg. Lab

Faculty of Mech. Engg.

- Dr. Deepak Gupta	(Ph. D.)
- Mr. Mohit Sharma	(M.Tech)
- Mr. Sudarsh Bhargav	(M.Tech)
- Mr. Rewat Mahajan	(M.Tech)
- Mr. Arisha Kayshap	(M.Tech)
- Mr. Surjeet Singh	(M.Tech)

Workshop

Mr. Bachan Lal
Mr. Amarjeet Singh
Mr. Avtar Singh
Mr. Neeraj Kumar
Mr. Ashwani Kumar

Semester 3

Subject
Probability and Statistics
Industrial Economics and Management
Strength of Materials - I
Fluid Mechanics
Engineering Thermodynamics
Machine Drawing
Open Elective - I

Lab Name
Strength of Materials Laboratory
Fluid Mechanics Laboratory
CAD Lab

Semester 4

Subject
Optimization and Calculus of Variations
Human Values and Professional Ethics
Manufacturing Technology - I
Strength Of Materials - II
I.C. Engines
Turbo Machines
Open Elective - II

Lab Name
I.C. Engine Lab
Turbo Machine Lab
Manufacturing Practice Lab - I

Semester 7

Subject
Industrial Automation and Robotics
Refrigeration and Air Conditioning
Power Plant Engineering
Industrial Engineering and Production Management
Programme Elective - II

Lab Name
Automation and Robotics Lab
Thermal Engg. Lab
Project Work - I
Industrial/Practical Training (Viva-Voce)

Semester 8

Subject
Programme Elective - III
Programme Elective - IV
Project Work - II

Lab Name
Industrial Project

Faculty Profile

The teaching faculty at VCOE is a set of highly qualified and dedicated team of teachers having specializations in several disciplines. The competence and expertise of the faculty are constantly upgraded in phased manner under faculty development program. Majority of the faculty members are post graduate and PhD's. Research papers of many faculty members have been published in both international and national journals. Some of them have also presented papers in seminars at various levels.

Milestones achieved by Faculty Members

1. Book Authored By

Mr. Avikar Sharma

Mr. Abhilash Sharma

Mr. Anuj Sharma

2. Paper Published By

Dr. Arjun Kumar

Dr. Gurvinder Singh

Mr. Avikar Sharma

Mr. Abhilash Sharma

Mr. Anuj Sharma

Mr. Bhuvnesh Pathania

Mr. Rajesh Bhatti

Mr. Pankaj Sharma

Ms. Vandana Mahajan

Ms. Sweta Sinha

Mr. Mohit Sharma

Mr. Sudarsh Bhargava

Mr. Rewat Mahajan

Mr. Kanav Mehta

Mr. Akshit Mahajan

Mr. Ramit Thakur

Placement Cell

Our Vision:

To impart necessary training to our students to meet the expectations of the Industry and to achieve 100% placement by providing them adequate job opportunities.

Our Mission:

- To provide sufficient training on aptitude tests, group discussions, presentations, communication skills, soft skills, facing HR and Technical interviews, to enhance the employability of the students.
- To make the students aware about the corporate culture and career opportunities by organizing guest lectures, workshops, seminars and industrial trainings by experienced personnel from the Industry.
- To partner with renowned organizations from the Industry and organize recruitment drives for our students within and outside the campus.

Members of Placement Cell

To carry out activities for accomplishing its mission, the Training and Placement cell was formed with following members from the faculty:

1. Mr. Rewat Mahajan
2. Ms. Neha Pathania
3. Ms. Panku Verma

Our Recruiters

MKR Techsoft, Lavya Associates HR Services, Chegg, bodhttree, WebAstral InfoSystems, TEPL
accenture, GENPACT, UFLEX, NATARAJ apsara Sanghvi Woods Pvt. Ltd., PEPSI, Deer
CTL, EDEN INDIA PVT LTD, CMS IT Services Private Limited, LEAD, genpact, VISION INDIA
ROOMAN TECHNOLOGIES, CONCENTRIX, SHRIRAM Group, Zenus Group, PARAS TECHNOLOGIES
Platinum Infosys, RAVENBHEL HEALTHCARE PVT. LTD., ICICI Bank, Acmesoft Solutions, AS, α
Fortsin Softwares Innovative Thinker, LeLafe IT Solutions, EMBRIX, LifeGold ATTA | MAIDA | SUJI, MVD Cementation & Construction Pvt. Ltd., Exotic
JJ Innovation, KLS Find Your Wings, Nimble, PC Planet, Riya Infotel, Secure-Net
THE TECHNICAL ZONE, T.T.S NETWORK, V, Zilaxy (Delivering Quality Automation), ERICSSON, INTEX
VECTUS ...for generations ahead, medley, Suntech Infra Solutions Pvt. Ltd., NATURIS, TOP Survey Experts, Rising Steel Fabricators
RELICUUM TECHNOLOGIES, LAHORI BUILDERS, BAJAJ Allianz, Arn Infotel, C2C TECHNOSOFT, CADD CENTRE
GALAXY, Impact Engineers, intelGain TECHNOLOGIES, LIC, MKS TECHNOLOGIES
Exl Infotel, NET IT LABS, Solitaire Infosys Pvt. Ltd., SONEIL TECH SOLUTIONS, sparkidea Interactive Pvt. Ltd., STC Global IT Partner in Testing
EICHER, eClerx, CADERA, Cbitss An Open Source Initiative, SPECTRO ANALYTICAL LABS LTD, Jai Beverages Pvt. Ltd.
Intellisense TECHNOLOGY, Jetking India's No.1 Computer Hardware & Networking Institute, TNS telecom network solutions, Netsoft Jevenseas, Sun inspires

and many more...

VGC TPO PORTAL

VGC not only promises to provide quality education to its students, but also helps them to avail access to the numerous career opportunities happening not just on local level but through out the nation. VGC TPO PORTAL is a technology use in campus were information on live Job Vacancies from the biggest MNC's in market is provided through the medium of LED television installed in the college premises. More than 150 jobs are updated every week to keep in pace with the present scenario. Student has to check the job displayed on the screen for his/her convenience. The information of a particular job is displayed stream wise on the screen. He/she just has to note down the job ID/IDs, they are interested in and then approach the TPO to find out the details about the job and TPO will guide them further on how to go about it. Besides, students will also gain access to the latest job fairs/walk – Ins. The foot scroll running on the screen will also notify them about the major government sector jobs with their deadlines. Thus, the student will have exposure to Thousands before the completion of their degrees.

VGC ERP (CHALKPAD)

College administration, nowadays, is not limited to maintaining employees and student information. All the key college stakeholders - students, faculty, non-teaching staff, parents, alumni and the management, require a way to connect with each other. This is all done through VGC's customized ERP system called "VGC ERP"

VGC ERP allows management, students and faculty to access critical information and resources from anywhere 24x7. VGC ERP provides a complete student lifecycle continuity, as students progress from their first year of joining, till the time they graduate and even become an alumni. VGC ERP is highly effective, easy-to-use campus management solution and offers plenty of time-saving features such as calculating attendance, tallying exam scores, managing new admissions, designing complex time-tables, generating analytical reports, sending messages & notices on-time, managing library & student information, tabulating grades and performance, scheduling classes, managing transport, printing examinations reports, allocating hostels etc.

VGC ERP empowers the Management, Teachers, Students, and Parents to easily communicate, share information, and manage their tasks effectively.

Student Activities

To achieve an all round excellence and to transform a young mind to a professional, who is not only technically sound but also a good human being, we at VCOE involve our students into a variety of activities wherein he can showcase and enhance his capabilities as well as support the social causes.

Aids Awareness Camp

Every year, a rally is organized by the students to spread awareness about AIDS in neighboring villages. Also, eminent doctors from various leading hospitals address the students about the deadly disease.

Traffic Awareness Campaign

This is another activity under CSR where a week long campaign is organized involving students and traffic police. The event is conducted as a workshop initially and then students along with traffic police educate the commuters about road safety at various places.

Fresher Day

With the aim of a smooth amalgamation of fresh student with old students, college organizes a fresher day. The new students are welcomed and introduced by their seniors which is preceded by cultural program and games. As a tradition at the college eminent personalities from the society who have earned their name and served the society are invited in the college so that students can learn from them.

Arboriculture

With the aim of go green and save environment, the college has adopted the surrounding areas for arboriculture and floriculture. In a way we ensure that students and locals understand the effect of saving environment

Sports Day

All work and no play, Makes jack a dull boy. In order to ensure overall development, incorporate team spirit and camaraderie among the students, annual sports day is organized, in the college. Various sports competitions precedes this day like cricket, badminton, volleyball etc. Celebration ends with a prize distribution ceremony for the winners.

Blood Donation Camp

At VCOE we aim at transforming our students into responsible citizen who can serve the society with this same aim, college organizes blood donation camp every year, where the experts are called from the govt. hospital and management, faculty and students participate in donating blood.

Seminars & Workshops

At VCOE the prime aim of education is mainly not limited to class rooms, but it is extended to making students employable engineers by providing them resources that would empower them to emerge as successful engineer. To achieve this eminent scholars from education and industry are invited to conduct seminars and workshop which are spread over the academic calendar.

National Unity Day

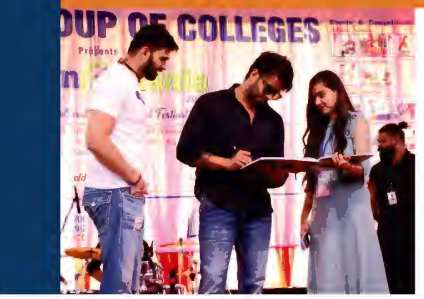
On 31st October as a remembrance of Sardar Patel. College celebrates the national unity day. A variety of competitions are organized like on the spot poster making debate and quiz etc.

Tuberculosis Day

The college observes world tuberculosis day on 25th March. Experts from the Govt. and private hospitals are invited to educate the students and conduct workshops including screening of documentary over the effects of tuberculosis how to be safe from such a disease.

Cultural Event

Every Year, Inter Branch Cultural Competition is organized by the Cultural Committee of the College where in students displayed their talents, which included folk dances, songs, skits, solo and group dances etc.



TechnoMania

At VCOE, we believe in transforming young minds into skilled and confident engineers, and to achieve this, annual technical festival is organized. The participants are provided a platform to showcase their various talents. TechnoMania, over the years has matured to be acknowledge as one of the biggest confluence of students, academicians and industry in the region. Inaugural TechnoMania witnessed the star performance by famous Punjabi Singer Mr. Garry Sandhu followed by Mr. Sherry Mann in the second and during last year we had Mr. Mankrit Aulakh entertaining the participants.

Job Fair

VCOE has always been recognized for its prominent placements and corporate accolades. With this aim we successfully conducted a number of campus placement drives and job fairs. During previous session four job fairs were conducted by the college. A dedicated team of training and placement is working round the clock to achieve the maximum placement of our students. So far more than 100 companies have visited our campus.