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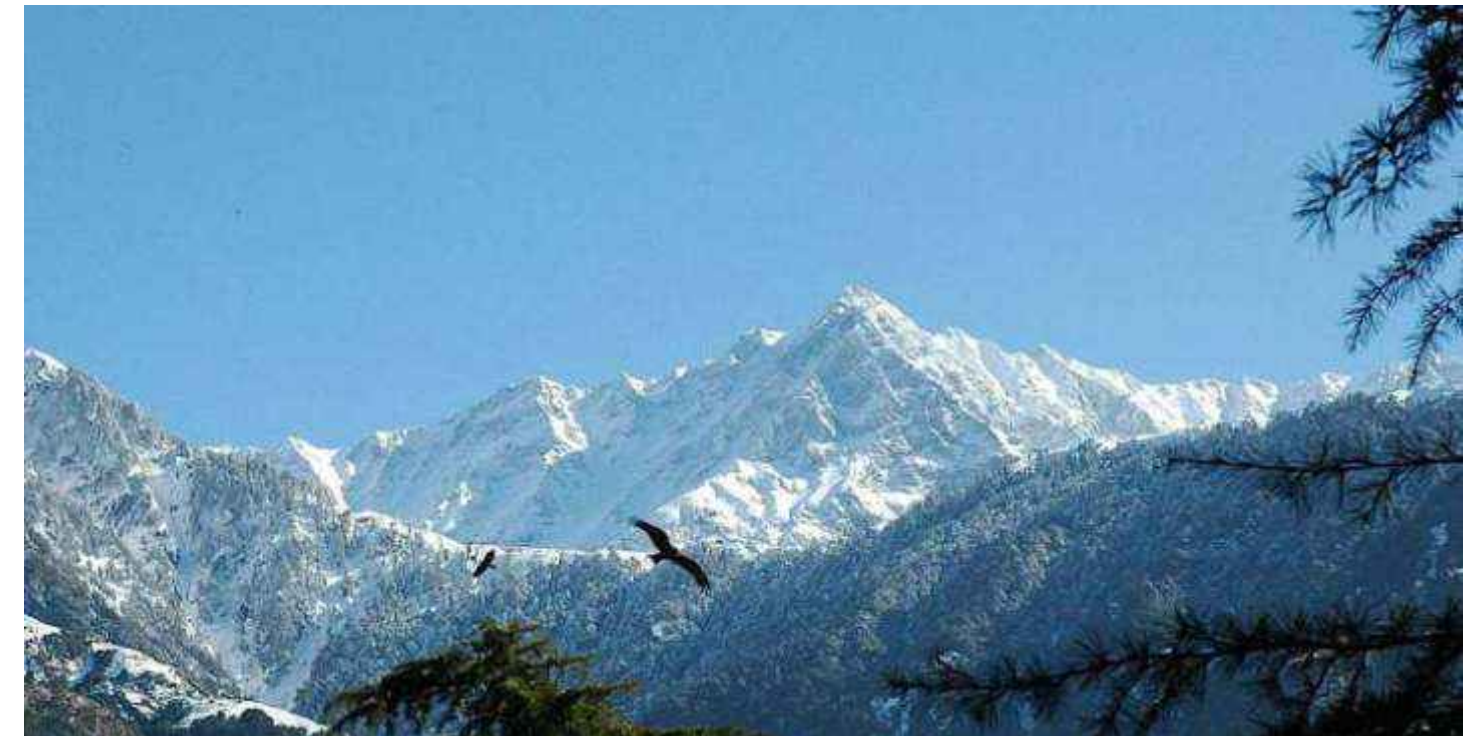


Village Thapkour, P.O. Bhadroya, The Nurpur, Distt. Kangra(H.P.)-176403
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About Himachal

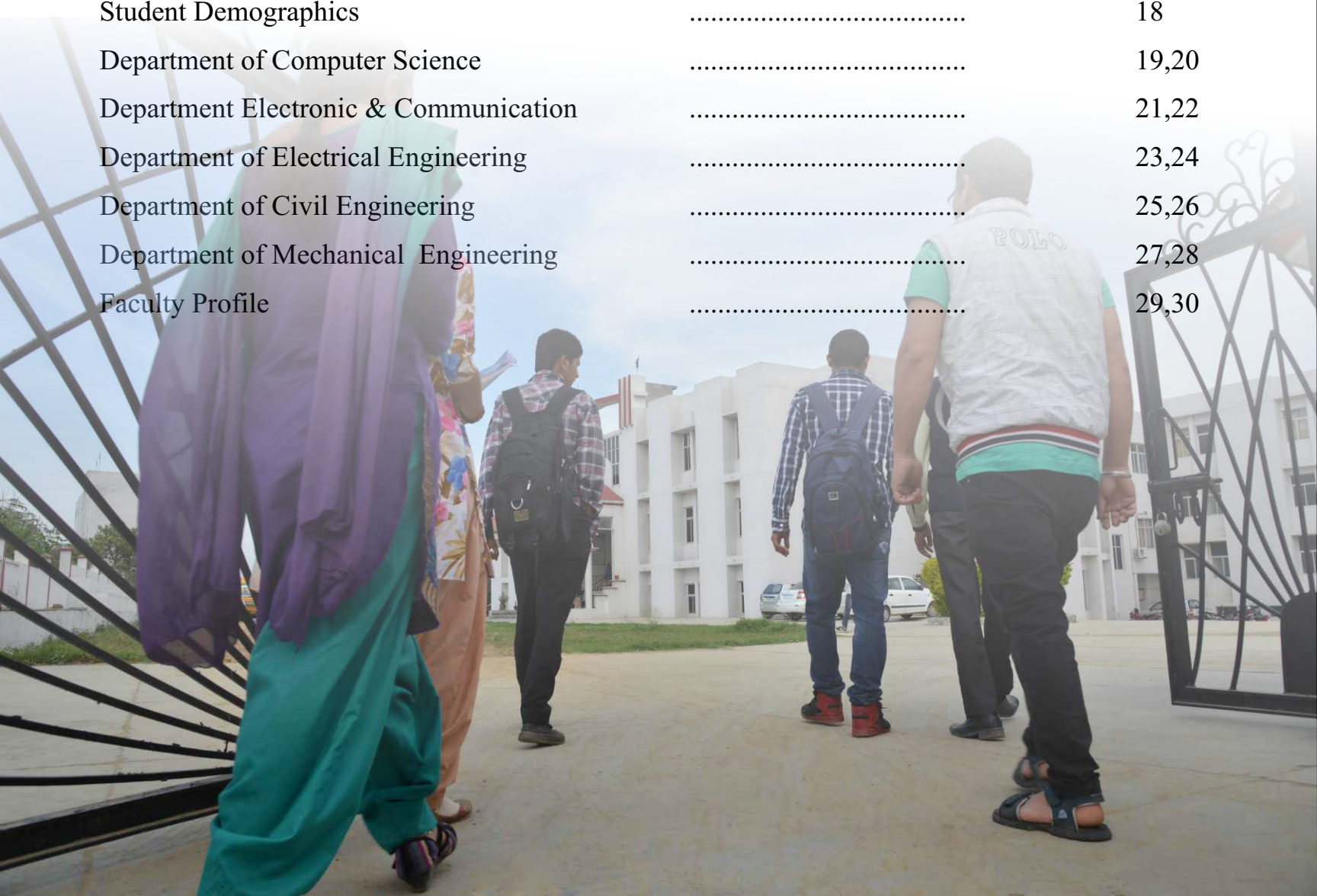


Himachal – An Educational Paradise for Students

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 Technical Education, 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.

Students of Himachal- Aptitude to Excel

The students of Himachal are considered to be hardworking, loyal and have a spirit of social adaptability and leadership. Various researches have proved that students here in Himachal have high degree of intelligent quotient. By virtue of their inherent nature they have comparatively one of the lowest rate of attrition pan India on joining corporate world as a fresher. They are considered to be enthusiastic and dedicated to their work profiles.





Message from Principal's Desk

Modern era is driven by globalization and fast paced world economy excelling every minute at an amazing speed. Recent technological advancements had 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.

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 the neighbouring states.



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 programmers are future oriented and encourage students to acquire ideas, pursue excellence and celebrate discoveries. The VCOE demands student's full participation so that they develop his personal voice and identity in order to stretch his potential. Education at VCOE empowers students to challenge and to lead. Our Endeavour at VCOE 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 a leadership skills is embedded in the college curriculum.

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

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) & 3kms from Chakki Bridge (Pathankot). Local buses are available from both the places every half-an-hour. Nurpur town is 20kms, Indora 15kms & Pathankot City is just 3kms from the Campus.



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.

Formation 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. Ankush Gupta
2. Mr. Jatinder Kumar
3. Mr. Abhishek Bhagwan
4. Mr. Randeep Singh
5. Ms. Amanpreet Kaur
6. Ms. Sukhkirandeep Kaur
7. Ms. Neha Mahajan



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 duration. 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 the course content & to explore various dimensions of the knowledge. VCOE provides discussions forums to fasten critical thinking and to provide 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 is the aspiration of every student. To facilitate this, there is a training & placement cell which maintains links with business houses & potential employers, invites 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 talent of students. Healthy interaction between teachers & students facilitates a very encouraging & motivating learning environment to the college students. To expose the students to the best brains in respective fields, extensions lectures and seminars are organized by the college wherein eminent educationalist, subject experts & professionals are invited to deliver lectures and to conduct workshop for students. VCOE also impart 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

Facilities for Recruiters

Faculty and student coordinators will be available for the recruiters for making all required arrangements on the day of recruitment drive. Seminar Hall with a capacity of up to 200 students for conducting pre-placement talks, analytical tests, etc. will be provided to the recruiters. Group discussion and personal interview rooms will be provided to the recruiters.



Travel and Accommodation

The College Campus is located in a very peaceful and calm location in Himachal Pradesh which is just about 3 kms from the Pathankot city. Pathankot, which is a district of Punjab State, shares border with Himachal Pradesh and Jammu & Kashmir and is very well connected with them.

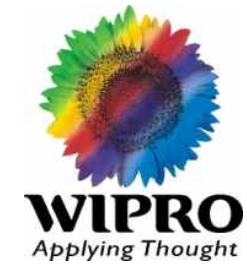
To reach to our college, depending upon the mode of travelling, you can arrive at any of the following points:

1. Chakki Bank Railway Station, Pathankot, Punjab. – About 6 Kms from the college.
2. Pathankot Railway Station, Pathankot, Punjab. – About 7 Kms from the college.
3. Kangra Airport, Kangra, Himachal Pradesh. – About 70 Kms from the college.
4. Pathankot Bus Stand – About 7 Kms from the college.

The college will arrange for a pick up and drop for these points. You can also travel by car from your departing city to our college. The accommodation will be provided in the best hotel in Pathankot.

The interested companies should inform the placement cell about its schedule for placement well in advance so that proper arrangements can be made for their representatives.

Our Recruiters





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 event of power failure. Separate hostel for boys and girls provide a home away from home to the boarders.



Library



From the modest beginning . VCOE library is on the verge of real take off as it combines the virtues of classic reading with the strength of 21st century technology. The VCOE Library 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 the faculty members and the students. Library has 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.

Hostel



In Campus hostel facility is available separately both for boys and girls on sharing basis. The building is newly constructed with spacious semi furnished and well ventilated rooms. A common room with television and indoor games is available which provides the hostel inmates an avenue for relaxation. Round the clock water supply with solar water heating system and captive power supply is also available in case of power failure.

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 as aim, the laboratories at VCOE are equipped with tools and instruments to cater to the requirement 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 day to day 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 computing requirements of both staff and students. The computer labs offer a mix of Pentium IV and thin technology based terminals connected to servers.

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 Nurpur, Jwalia, Indora, Pathankot & Kathua.

Student Activities

To achieve an all round excellence and transforming a young mind to a professional, who is technically sound, good human being, we at VCOE involve students into a variety of activities wherein he can showcase and enhance his capabilities and make his parents and Nation proud.



Aids Day Campaign

On 1st Dec 2012, a rally was organized by the students to bring awareness about the AIDS in neighboring villages.



Traffic Awareness Campaign

As a part of Corporate Social responsibility, a Traffic awareness Campaign was organized on 02May 2012 followed by students educated the commuters on road safety at Pathankot, Kathua, Samba, Lakhampur & Jammu.



Fresher Day

To welcome the fresh batch, fresher's day is celebrated at VCOE. This year the fresher's day was celebrated on 10 Nov, 2012. The function was organized by the cultural and Co-Curricular activity Committee. Mr. Des Raj, MLA was the chief guest. The celebration started with lighting of lamp of learning. The students memorized the spectators presenting variety of cultural events.



Sports Event

All works and no play make jack a dull boy. To provide an avenue for relaxation after the day's classroom sessions and also a platform for development of team spirit and leadership qualities, facilities for game and sports, both indoor and outdoor are available. Annual sports day is celebrated where a large participation from students can be seen.



Blood Donation Camp

To mark the disability day on 17 Apr 2012, a blood donation a camp was organized at VCOE under the supervision of Dr. Anju Puri, Zonal Hospital, Dharamshala. A number of students and faculty members donated blood.



Seminars & Workshops

Numerous interactive seminars and workshops by the experienced personnel of the corporate world are organized to enhance the technical soft skills of the students.



Cultural Event

On 5th May 2012, Inter Branch Cultural Competition was organized by the Cultural Committee of the College where in students displayed their talents, which included folk dances, songs, skits, solo and group dances.





Tech Fest

To provide a national level platform for the students to showcase their talents, VCOE organized Tech Fest on 30th March 2013. About 1500 students from numerous colleges of various states attended the Tech Fest. Many cultural and technical competitions were held. In the end, the event was rocked by the dazzling performance of singing star Mr. Garry Sandhu, who has won the best newcomer Punjabi singer 2011 award.



Job Fair

“When the whole world was worried about firing, 20 + companies visited VCOE for hiring” About 200 candidates from numerous colleges situated in various parts of India got short listed for interview in Job Fair 2013 held at VCOE campus on 29th April 2013. Out of these about 80 candidates got placed. The participating companies were impressed by the quality of students of VCOE and appreciated the efforts of the students, faculty and the management.





VAISHNO

GROUP OF COLLEGES

Approved by AICTE, NCTE, HP Govt. & Affiliated to HP University & HP Technical University

When the whole world is worried about Firing
VGC has discovered 20+ Companies which are

HIRING !




Vaishno Group of Colleges
Invites Candidates for the

★ “MEGA JOB FAIR” ★

Eligibility : B.tech (ALL STREAMS), diploma in engineering (All Streams), M.tech (All Streams), 12th, BA, B.SC, B.COM, M.COM, MBA, MCA
Selection Procedure : Written Test & Personal Interview
Registration : On The Spot
Reporting Time : 8:45 am **Date :** 29th April, 2013
VENUE : Vaishno Group Of Colleges Campus at Thapkour, P.O. Bhadroya, Tehsil Nurupur, Distt. Kangra (HP)
Contact : 08427314915, 08427314354
E-mail : jobfair@vcoe.co.in **WEBSITE :** www.vgc.org.in

“Candidates must carry 10 copies of resume, 20 Passport photographs, all testimonials”

RECRUITERS

WIPRO

TLC

DELL

GENPACT

HCL

IBM

CQLays

Jetking

WNS

BAJAJ Allianz

DomainMarket.com

ms

TATA

Intellisense Technology

SimplySignin

Exotic

Sun inspires

Conjōnix

SINEIL

GALAXY

Departments

Department of Computer Science



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.

SYLLABUS (Branch CSE)

Semester 1

Subject
Engineering Mathematics – I Engineering Physics-I Engineering Chemistry Communication and Professional Skills in English Basic Mechanical Engineering Principles of Computer Programming & C++
Lab Name
Engineering Chemistry Lab Communication & Professional Skill Lab Computer Programming Lab Workshop Practice

Semester 5

Subject
Principals of Management and Critical Thinking Operating System Modeling and Simulation Analysis and Design of Algorithms Computer Networks Microprocessor and Interfacing
Lab Name
Operating System Lab Computer Networks Lab Microprocessor Lab Community Project/Survey Camp

Semester 2

Subject
Engineering Mathematics-II Engineering Physics-II Disaster Management and Environmental Science Basic Electrical and Electronics Engineering Engineering Drawing and Graphics Engineering Mechanics
Lab Name
Engineering Physics Lab Basic Electrical Engineering Lab Basic Electronics Lab Workshop Practice - II

Semester 6

Subject
Open Elective Database Management System Compiler Design Software Engineering Artificial Intelligence Information Storage Management
Lab Name
System and Network Administration Lab DBMS Lab Artificial Intelligence Lab C#/.NET Lab

Lab Facilities

- ICPC Lab
- N.A Lab
- OOP Lab
- Sad Project Lab
- Visual Programming Lab
- RDBMS Lab
- PC Hardware Lab
- Multimedia Lab
- Computer Graphic Lab
- Compiler Design Lab
- Perating System Lab
- Computer Network Lab
- System & Network Administration Lab
- Artificial Intelligence Lab

Faculty of C.S.E

- Mr. Deepak Sharma (M. Tech/Ph.D)
- Mr. Abhilash Sharma (M. Tech/Ph.D)
- Ms.Sukhkirandeep Kaur (M.Tech)
- Mr. Ajay Sharma (M.Tech)
- Mr. Anuj (M.Tech)
- Mr. Jatinder Kumar (M.Tech)
- Ms. Simmi Dogra (B.Tech/MCA)
- Mr. Malkeet Singh (B.Tech)
- Mr. Bhuvnesh Pathania (MCA)
- Mr. Rajeshwar Saini (MCA)

Management

- Ms. Priyanka Sharma MBA
- Ms. Ritika Sharma MBA
- Ms. Neha Pathania MBA
- Mr. Randeep Singh MBA

Semester 3

Subject
Engineering Economics Data Structures and Algorithms Computer Organization & Computer Architecture Internet Fundamentals Digital Electronics Discrete Mathematics & Logic Design
Lab Name
Data Structures Lab Hardware/PC Lab Digital electronics Lab Communication Skill Lab II Vocational Project Training

Semester 7

Subject
Elective -I Advanced Computer Architecture Data Mining and Data Ware Housing Wireless Communication and Mobile Computing Soft Computing
Lab Name
Data Mining Lab Multimedia Application Lab Industrial Training Viva Seminar Project-I

Semester 4

Subject
Human Values and Professional E Numerical methods for Engineers System Software Theory of Computation Internet Technology (JAVA) Computer Graphics
Lab Name
Numerical Method Lab Internet Technology Lab Computer Graphics Lab Extra Curricular Activity

Semester 8

Subject
Elective-II Information System Security Web Technology Fundamentals of Cloud Computing
Lab Name
Web Technology Lab Project -II General Proficiency

Department of Electronics and Comm. Engg.



The ECE curriculum provides a wide perspective of 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.

SYLLABUS (Branch ECE)

Semester 1

Subject
Engineering Mathematics – I Engineering Physics-I Engineering Chemistry Communication and Professional Skills in English Basic Mechanical Engineering Principles of Computer Programming & C++
Lab Name
Engineering Chemistry Lab Communication & Professional Skill Lab Computer Programming Lab Workshop Practice

Semester 5

Subject
Open Elective Microprocessor Theory and Application Communication System-II Power Electronics & its Application Electromagnetic Field Theory Linear Integrated Circuit and Design
Lab Name
Microprocessor Lab Communication System Lab-II Power Electronics Lab Community Project/ Survey Camp Control Systems

Semester 2

Subject
Engineering Mathematics-II Engineering Physics-II Disaster Management and Environmental Science Basic Electrical and Electronics Engineering Engineering Drawing and Graphics Engineering Mechanics
Lab Name
Engineering Physics Lab Basic Electrical Engineering Lab Basic Electronics Lab Workshop Practice - II

Semester 6

Subject
Principles of Management and Critical Thinking Microcontroller and Embedded Systems Control Systems Antenna and Wave Propagation Optical Communication Microwave and Radar Engineering
Lab Name
Microcontroller Lab Control Engineering Lab Microwave and Optical Communication Lab

Lab Facilities

- Basic Electronic Lab
- Digital Electronic Lab
- Analog Lab
- Communication System Lab
- EMMI Lab
- MAT Lab
- ECS Lab
- Microprocessor Lab
- Industrial Electronic Lab
- Cs Lab
- Electronic Design Lab
- Advance Microprocessor Lab
- Control System Lab
- Micro Controller Lab
- Control Engg. Lab
- Microwave & Optical Communication Lab

Faculty of E.C.E.

- Mrs. Vandana Mahajan (M.tech)
- Ms. Amanpreet Kaur (M.tech)
- Mr. Amit (M.tech)
- Ms. Neha Mahajan (M.tech)
- Mr. Sanjeev Sharma (M.tech)
- Mr. Parveen Kumar (M.tech)
- Mr. Karan Mehtab Singh (B.tech)
- Mr. Vinod Raina (B.tech)
- Ms. Inderpreet (B.tech)
- Mr. Charanjit Singh (M.tech, B.tech)

Dept. of Applied Physics

- Mr. Ashok Garg M.Sc, M.Phil
- Mr. Akhil Mahajan M.Sc
- Mr. Bikram Singh M.Sc

Semester 3

Subject
Human Values and Professional Ethics Engineering Mathematics-III Digital Electronics Engineering Analog Electronics Engineering Circuit Theory & Network Analysis & synthesis Communication Theory
Lab Name
Digital Electronics Lab Analog Electronics Lab Electronics Simulation Lab Communication Skills Lab-II Vocational Project / Training

Semester 7

Subject
Elective-I Digital System Design using HDL Digital Signal Processing Wireless & Mobile Communication CMOS & VLSI Design
Lab Name
VLSI & HDL Lab DSP Lab Wireless Communication Lab Industrial Training Viva \$\$ Seminar / Project-I

Semester 4

Subject
Indian Economic Development Numerical Methods for Engineers Communication System-I Electronic Measurement & Measuring Instruments Electronic Device Modelling Pulse Shaping and Wave Generation
Lab Name
Communication system Lab -I Electronic Measurement & Measuring Instrument Lab PCB and Electronic Workshop MATLAB Extra Curricular Activity

Semester 8

Subject
Elective-II Information Theory and Coding Principle of Soft Computing Computer Networks & Data communication
Lab Name
Soft computing Lab Data Communication Lab Project-II General Proficiency

Department of Electrical Engg.



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.

SYLLABUS (Branch EE)

Semester 1

Subject
Engineering Mathematics – I Engineering Physics-I Disaster Management and Environmental Science Basic Electrical and Electronics Engineering Engineering Drawing and Graphics Engineering Mechanics
Lab Name
Engineering Physics Lab Basic Electrical Engineering Lab Basic Electronics Engineering Lab Workshop Practice-I

Semester 5

Subject
Open Elective Electrical Machine-II Transducers & Signal Conditioning High Voltage Techniques & HVDC Electromagnetic Field Theory Microprocessor Theory and Applications
Lab Name
Electrical Machine-II Lab Transducers & Signal Conditioning Lab Microprocessor Theory and Applications Lab Community Project/ Survey Camp

Semester 2

Subject
Engineering Mathematics-II Engineering Physics-II Engineering Physics-II Communication & Professional Skills in English Basic Mechanical Engineering Principles of Computer Programming & C++
Lab Name
Engineering Chemistry Laboratory Communication & Professional Skills Lab-I Computer Programming Laboratory Workshop Practice-II

Semester 6

Subject
Principles of Management and Critical Thinking Switchgear & Protection Control Engineering-I Electrical Power Generation Electrical Drives and Facts Microcontrollers & Embedded Systems
Lab Name
Switchgear & Protection Lab Control Engineering Lab Microcontrollers & Embedded Systems Lab

Lab Facilities

- Basic Electrical & Electronics-Engg. Lab
- Electrical Machine Lab-1
- Electrical Machine Lab-2
- Power Electronic Lab
- Control Engg. Lab
- Switch Gear & Protection Lab
- Micro Controller Imbedded-System Lab
- Transducers and signal-conditioning Lab
- Transmission & Distribution-of Electrical Power Lab
- EMMI Lab

Faculty of Electrical Engg. Dept. of Applied Chemistry

- | | | |
|------------------------------------|-------------|------|
| - Mr. Rajesh Kumar Bhatti (M.Tech) | Ms. Swati | M.Sc |
| - Ms. Abhishek Bagwan (M.Tech) | Ms. Supriya | M.Sc |
| - Mr. Ankush Gupta (M.Tech) | | |
| - Ms. Avneet Kaur (M.Tech) | | |
| - Mr. Sunil Kumar (M.Tech) | | |
| - Mr. Vijayant Sharma (M.Tech) | | |
| - Mr. Sushil Gaiind (M.Tech) | | |
| - Ms. Anuradha Khajuria (B.Tech) | | |

Semester 3

Subject
Human Values and Professional Ethics Engineering Mathematics-III Transmission & Distribution of Electrical Power Circuit Theory Electrical Engineering Materials and Applications Digital Electronics
Lab Name
Transmission & Distribution of Electrical Power Lab Circuit Theory Lab Digital Electronics Lab Communication Skills Lab-II Vocational Project / Training

Semester 7

Subject
Elective-IElectrical Machine Design Biomedical Engineering Power System Operation & Control Communication Engineering
Lab Name
Electrical Machine Design Lab Biomedical Engineering Lab Industrial Training Viva Seminar Project-I

Semester 4

Subject
Engineering Economics Numerical Methods for Engineers Electrical Machines-I Power Electronics Signals & Systems Electrical Measurement & Measuring Instruments
Lab Name
Electrical Machines-I Lab Power Electronics Lab Electrical Measurement & Measuring Instruments Lab Extra Curricular Activity

Semester 8

Subject
Elective-II Computer Applications To Power System Analysis Control Engineering-II Digital Signal Processing
Lab Name
Computer Applications To Power System Analysis Lab Digital Signal Processing Lab Project-II General Proficiency

Department of Civil Engg.



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

SYLLABUS (Branch CE)

Semester 1

Subject
Engineering Mathematics – I Engineering Physics-I Engineering Chemistry Communication and Professional Skills in English Basic Mechanical Engineering Principles of Computer Programming & C++
Lab Name
Engineering Chemistry Lab Communication & Professional Skill Lab Computer Programming Lab Workshop Practice

Semester 5

Subject
Principles of Management and Critical Thinking Structural Analysis-II Design of Concrete Structures Geotechnical Engineering-II Hydrology and Groundwater Transportation Engineering-I
Lab Name
Structural Analysis Laboratory Concrete Laboratory Community Project/ Survey Camp

Semester 2

Subject
Engineering Mathematics-II Engineering Physics-II Disaster Management and Environmental Science Basic Electrical and Electronics Engineering Engineering Drawing and Graphics Engineering Mechanics
Lab Name
Engineering Physics Lab Basic Electrical Engineering Lab Basic Electronics Lab Workshop Practice - II

Semester 6

Subject
Open Elective Bridge Engineering Irrigation Engineering Transportation Engineering-II Water Supply and System Engineering Estimation and Costing
Lab Name
Civil Engineering Software Laboratory -I Transportation Engineering Laboratory Environmental Engineering Laboratory

Lab Facilities

- Geotechnical Engg. Lab
- Concrete Structure Lab
- Structural Analysis Lab
- Material Testing Lab
- Survey Lab
- Transportation Lab
- Environmental Engg. Lab
- Civil Engg. Software Lab
- Concrete Lab
- Hydro Power & FM Lab
- Building Material Lab

Faculty of Civil Engg.

- Mr. K.L. Mehta (M.Tech)
- Mr. Harvinder Singh (M.Tech)
- Mr. Navdeep Singh (M.Tech)
- Mr. Mohit Vaid (M.Tech)
- Mr. Bikash Sharma (B.Tech)
- Mr. Dheeraj (B.Tech)
- Mr. Satpal (B.Tech)
- Mr. Sukhwinder Singh (B.Tech)

Applied Maths Qualification

- | | |
|--------------------|----------------------|
| Dr. Vishwkarma | PhD |
| Ms. Alka Mahajan | M.Sc, M.Phil |
| Mr. Narinder Kumar | M.Sc, M.Phil |
| Mr. Avikar Sharma | M.Phil/ Pursuing PhD |
| Ms. Arti Mahajan | M.Sc, M.Phil |

Semester 3

Subject
Engineering Economics Strength of Materials Building Construction and Materials Fluid Mechanics Surveying-I Engineering Mathematics-III
Lab Name
Building Material Laboratory Fluid Mechanics Laboratory Surveying-I Laboratory Building Drawing Oral and Written Communication Skills Lab-II

Semester 7

Subject
Elective-IDesign of Steel Structures Design of Hydraulic Structures Waste and Sewage Treatment Project Planning and Construction Equipments
Lab Name
Structural Drawing Waste and Sewage Treatment Laboratory Industrial Training Viva \$\$ Seminar Project-I

Semester 4

Subject
Human Values and Professional Ethics Numerical Methods for Engineers Structural Analysis-I Geotechnical Engineering-I Hydropower and Fluid Machines Surveying-II
Lab Name
Soil Mechanics Laboratory Hydropower and Fluid Machines Laboratory Surveying-II Laboratory Extra Curricular Activity

Semester 8

Subject
Elective-II Advanced Structural Design Water Resources and System Engineering Earthquake Resistant Design
Lab Name
Civil Engineering Software Laboratory -II Project-II General Proficiency

Department of Mechanical Engg.



Mechanical Engineering is a core engineering discipline and one of the oldest disciplines in the field of engineering. It requires a solid understanding of core concepts including mechanics Kinematics, Thermodynamics, Fluid Mechanics and energy. Mechanical engineers use the installation, operation and maintenance of machinery and production process. The curriculum at VCOE aims at developing the practical and theoretical knowledge in different disciplines of Mechanical Engineering offered by the department.

SYLLABUS (Branch ME)

Semester 1

Subject
Engineering Mathematics – I Engineering Physics-I Disaster Management and Environmental Science Basic Electrical and Electronics Engineering Engineering Drawing and Graphics Engineering Mechanics
Lab Name
Engineering Physics Lab Basic Electrical Engineering Lab Basic Electronics Engineering Lab Workshop Practice-I

Semester 5

Subject
Principles of Management and Critical Thinking Fluid Machines Manufacturing Technology-II Heat Transfer Machine Design-I Dynamics of Machines
Lab Name
Fluid Machines Lab Manufacturing Practice lab Heat Transfer lab Dynamics of Machines lab Community Project

Semester 2

Subject
Engineering Mathematics-II Engineering Physics-II Engineering Physics-II Communication & Professional Skills in English Basic Mechanical Engineering Principles of Computer Programming & C++
Lab Name
Engineering Chemistry Laboratory Communication & Professional Skills Lab-I Computer Programming Laboratory Workshop Practice-II

Semester 6

Subject
Open Elective Measurement and Control Industrial Engg. & Production Management Machine Design-II I.C. Engines Materials Technology
Lab Name
Measurement and Control Lab I.C. Engines Lab Materials Technology Lab Seminar and Group Discussion

Lab Facilities

- Applied Thermodynamics Lab
- Strength of Materials Lab
- Fluid Machinery Lab
- Heat Transfer Lab
- Engineering Materials and Metallurgy Lab
- AutoCAD Lab
- Kinematics Machines Lab
- I.C. Engines Lab
- Manufacturing Practice Lab
- Dynamic of Machine Lab
- Measurement & Control Lab
- Metrology and interchangeability Lab

Faculty of Mech. Engg.

- Mr. Rohit Uppal (M.Tech)
- Mr. Vinal Sharma (M.Tech)
- Mr. Johny Khajuria (M.Tech)
- Mr. Sanjeev Punia (M.Tech)
- Mr. Ankush Sharma (M.Tech)
- Mr. Harsimran Singh (B.Tech)
- Mr. Prince Rana (B.Tech)
- Mr. Tejbinder Singh (B.Tech)
- Mr. Vikas Khajuria (B.Tech)
- Mr. Rewat Mahajan (B.Tech)
- Mr. Surjeet Singh (B.Tech)
- Mr. Sourab Sharma (B.Tech)

Workshop

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

Semester 3

Subject
Engineering Economics Engg. Mathematics-III Strength of Materials -I Applied Thermodynamics Machine Drawing Fluid Mechanics
Lab Name
Strength of Materials Laboratory Fluid Mechanics Laboratory AutoCAD Lab

Semester 7

Subject
Departmental Elective-I Mechanical Vibrations Automobile Engineering Refrigeration and Air Conditioning Operations Research
Lab Name
Automobile Engineering lab Refrigeration and Air Cond. lab Project-I Industrial Training Viva

Semester 4

Subject
Human Values and Professional Ethics Numerical Methods for Engineers Metrology and Interchangeability Manufacturing Technology-I Strength of Materials -II Kinematics of Machines
Lab Name
Oral and Written Communication Skills Lab-II Metrology and Interchangeability lab Kinematics of Machines Laboratory Extra Curricular Activity

Semester 8

Subject
Departmental Elective-II EnComputer Aided Design and Manufacturing (CAD/CAM) Power Plant Engg. Mechatronics
Lab Name
Computer Aided Design (CAD) lab Project-II General Proficiency

Faculty Profile

The teaching faculty of VCOE is 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 20% are pursuing PhD. Research paper by some of the faculty members have been published in both international and national journals. Some of them have also presented papers in seminars at various level.

Milestones achieved by Faculty Members

1. Book Authored By

- Mr. Jatinder Kumar
- Mr. Anuj Sharma
- Mr. Ashok Garg
- Ms. Sukhkirandeep Kaur

2. Paper Published By

- Ms. Amanpreet Kaur
- Ms. Sukhkirandeep Kaur
- Mr. Vijayant Sharma
- Mr. Deepak Sharma
- Mr. Abhilash Sharma
- Mr. Rohit Uppal
- Mr. Avikar Sharma
- Mr. Ankush Gupta
- Mr. Sanjeev Sharma
- Mr. Sanjeev Singh Punia
- Mr. Vinal Sharma
- Mr. Ankush Sharma

