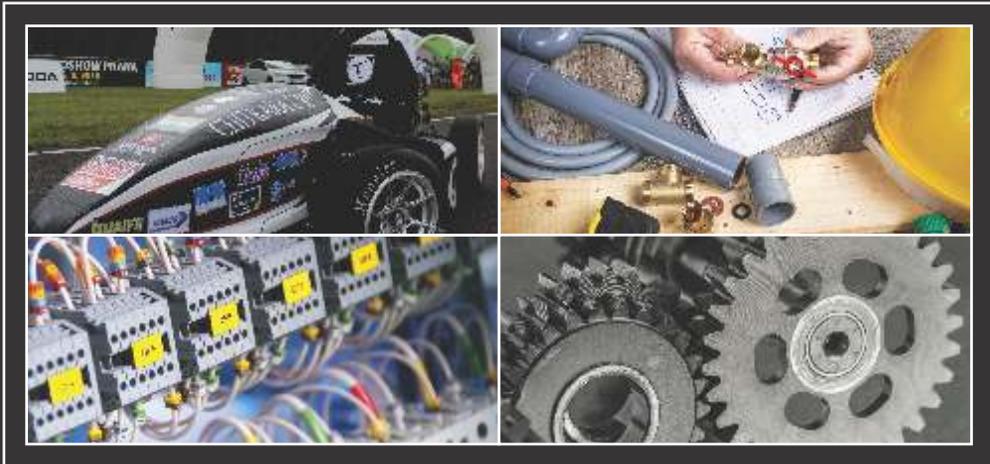


CHITKARA

COLLEGE OF

**APPLIED
ENGINEERING**



**AFTER CLASS X
JOB-FOCUSED SKILL BASED
3-YEAR DIPLOMA PROGRAMS**

AUTOMOBILE | CIVIL | ELECTRICAL | MECHANICAL



CHITKARA
UNIVERSITY





**USE YOUR HEAD,
HEART AND HANDS.**

CHITKARA
UNIVERSITY





WELCOME TO CHITKARA UNIVERSITY PUNJAB

**ENGINEERING | ARCHITECTURE
ART & DESIGN | BUSINESS
HOSPITALITY | CULINARY | MEDIA | PHARMACY
HEALTH SCIENCES | EDUCATION**



EXPLORE

EXCEPTIONAL FACILITIES,
RESOURCES AND SPACE.



Chitkara Educational Trust established its Punjab campus in the year 2002 on the Chandigarh-Patiala national highway, which is 30km from Chandigarh.

In the year 2010, Chitkara University was established by the Punjab State Legislature under “The Chitkara University Act”. Chitkara University is a government recognised University with the right to confer degrees as per the Sections 2(f) and 22(1) of the UGC Act. 1956.





**STRONG
ACADEMIC
HERITAGE**



**INDUSTRY-LED
COURSES**



**TOP 30
RANKING**



**100% CAMPUS
PLACEMENT**



**COUNTED
AMONG THE
BEST**



**LEARN FROM
THE BEST**



**INTENSIVE
FOCUS ON
ENTREPRENEURSHIP
& INNOVATION**

**WILL LET YOU
EMBARK ON
RESEARCH FROM
DAY ONE**



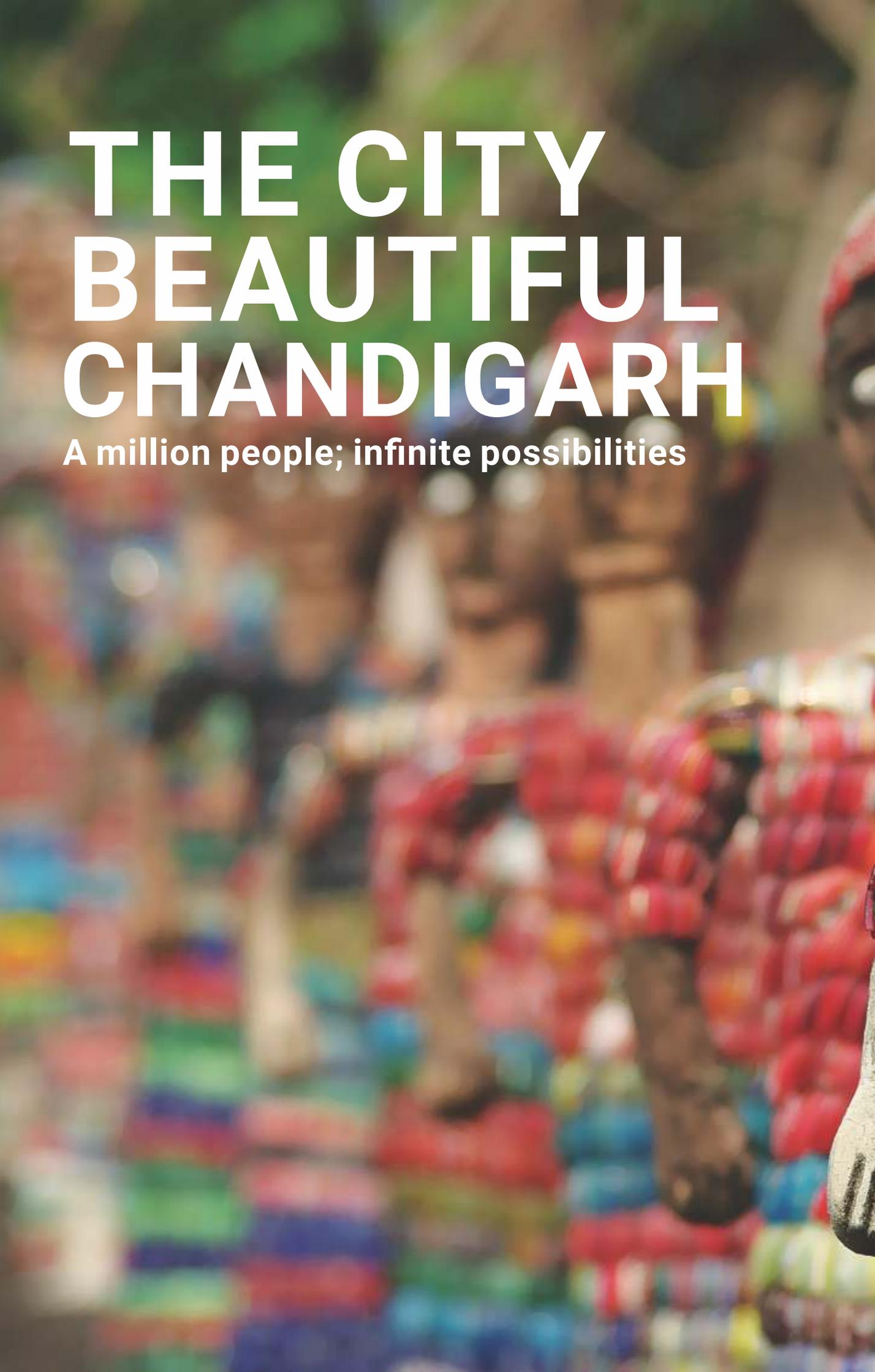
**TRAVEL
THE WORLD
100+ GLOBAL
PARTNERSHIPS**



CHITKARA UNIVERSITY

**The Leading Private University
of NORTH INDIA**

Chitkara University is different. Our students are different. So are our faculty, our academic strengths and our outlook towards teaching and learning. We are ranked among the top 50 Indian Universities, which speaks volumes about our strong academic heritage, highly committed faculty, extensive industry collaborations, great global connections and state-of-the-art campus facilities.



THE CITY BEAUTIFUL CHANDIGARH

A million people; infinite possibilities



TESLA block

THE DIPLOMA ADVANTAGE: A HIGH-QUALITY, JOB-FOCUSED TECHNICAL EDUCATION AFTER CLASS X





CHITKARA

COLLEGE OF
**APPLIED
ENGINEERING**

The aim of diploma education is to create a pool of skill & knowledge based manpower to support shop floor and field operations as a middle level link between Technicians and Engineers. The students of Diploma level institutions in Engineering & Technology play an important role in managing shop-floor operations, technical service and manufacturing operations. It is further an established fact that small & medium industry prefer to employ Diploma Holders because of their specialised skills in interpreting Engineering drawings, estimating, costing, billing, supervision, measurement, testing, repair & maintenance etc.

Chitkara College of Applied Engineering is a Chitkara Education initiative to provide students the opportunity to grow vertically & horizontally in their career paths with Electrical, Mechanical, Civil & Automobile specialisation. All our programs come with mandatory industry paid internship and are offered with 100% placement assistance with partner organisations, which ensures a successful career start in chosen industry domains.

Our 3-Year program provides career-focused and community-responsive education developed in partnership with employers combining theoretical and applied learning, relevant work experience for students and the opportunity for them to participate in industry led research and commercialization projects.



DIPLOMA EDUCATION @ CHITKARA COLLEGE OF APPLIED ENGINEERING

Creating, inventing, innovating, attacking challenges, solving problems, improving the quality of life - these are the driving forces for Diploma Engineers. The Diploma Engineer's ingenuity is a driving force in our society. From space stations to microsystems, the potential for Innovative Engineering is endless. If you're wondering what the future might look like, Chitkara Engineering programs can show you the way.

Our courses enable you to develop your Engineering knowledge, skills, imagination and experience to the highest levels in readiness for your future career. The Engineering Diploma Programs at Chitkara College of Applied Engineering combine classroom learning and laboratory/workshop practice in technical areas with a broad liberal arts curriculum and industry assignments to give you an Education tuned to the 21st century wavelength. We are dedicated to giving you an exceptional Engineering experience with knowledgeable and committed faculty, complimented with the latest equipment and technology.

For the academic year 2019, we are offering the following programs:

- **3-Year Diploma in Automobile Engineering**
- **3-Year Diploma in Civil Engineering**
- **3-Year Diploma in Electrical Engineering**
- **3-Year Diploma in Mechanical Engineering**



INDIA SKILL DEVELOPMENT MISSION



WorldSkills India is an initiative of the National Skill Development Corporation (NSDC) under the Ministry of Skill Development and Entrepreneurship, Government of India. NSDC, through its WorldSkills India initiative, has been leading the country's participation at WorldSkills International Competitions since 2011.

The key objectives of WorldSkills India are to:

- Promulgate skills in society to motivate the youth to pursue vocational education
- Champion skills and learning for work through local, regional, national and international skills competitions
- Create partnership network comprising of government, industry, academic partners, VET institutions, trade associations and youth to promote skills
- Establish long-term association with WorldSkills International and other WorldSkills member countries

STUDENTS OF CHITKARA UNIVERSITY BRING LAURELS TO THE STATE IN NATIONAL SKILL COMPETITION 2018



HIMANSHU VOHRA

Himanshu is currently pursuing Diploma in Civil Engineering from **Chitkara College of Applied Engineering**. He participated in the India Skills Competition for Plumbing and Heating Skill and secured the first position at District, Zonal and State Level competition. He represented Chitkara University and Punjab State, at the India Skills National Competition held at New Delhi from October 2-6, 2018 and bagged a "**Gold Medal**" and cash prize of **Rs 100,000**. He will be competing for a place at Worldskills Competition to be held at **Russia in August, 2019**.

RAHUL

Rahul is currently pursuing final year of B.Tech Electrical Engineering (Factory Automation) from **Chitkara College of Applied Engineering**. He represented Chitkara University and Haryana State, at the India Skills National Competition held at New Delhi from October 2-6, 2018 and bagged a "**Gold Medal**" and cash prize of **Rs 100,000**. He will be competing for a place at Worldskills Competition to be held at **Russia in August, 2019**.

VINAYAK SHARMA

Vinayak is currently pursuing B.Tech in Electrical Engineering (Factory Automation) from **Chitkara College of Applied Engineering**. He participated at India Skills Competition for Industrial Control Skill. He represented Chitkara University and Punjab State at India Skills National Competition held at New Delhi from October 2-6, 2018, and bagged a "**Silver Medal**" and cash prize of **Rs 75,000**. He will be competing for place at Worldskills Competition to be held at **Russia in August, 2019**.

AMITIJ SINGH SETHI

Amitoj is currently pursuing B.E in Mechanical Engineering from Chitkara University. He participated at India Skills Competition for Automotive Technology Skill. He represented Chitkara University and Punjab State at India Skills National Competition held at New Delhi from October 2-6, 2018, and bagged a **Medallion of Excellence**.

STRONG INDUSTRY COLLABORATIONS @ CHITKARA COLLEGE OF APPLIED ENGINEERING

For our Applied Engineering programs, we realize that our technical graduates are foundation of the new knowledge based Indian economy. We also know that an active industry-academic interface is required to achieve the goal of producing "Industry Ready" students, who are well-rounded and quick learners. These industry collaborations will help our students to acquire skills and capabilities, prepare them to get appropriate employment and ensure their competitiveness in national and international work environment.



IEEMA was the first association established right next after the day of Indian Independence. It is the largest Industry association encompassing 800 plus manufacturers covering the entire gamut of electrical, industrial electronics and allied equipment company. Chitkara University being the frontrunner in proactive industry interface was felicitated and accepted to become the 1st Academic partner of IEEMA to take up academic reforms and to implement academic policies concerning Electrical Engineering education.



Indian Plumbing Association is apex body of plumbing professionals in India. Established in 1993 with objective to promote development of plumbing and building services industry, the association helped in creating design engineers and installation engineers for modern plumbing system. Chitkara University became 1st academic university partner to seek active support of IPA in establishing first ever academic program in Plumbing & Public Health Engineering in India.



Chitkara University is strategic academic partner to IESA in academic collaboration panel, thus enabling modern curriculum for engineering education. In association with IESA, Chitkara University promotes technical startups, active student projects and industry driven research led innovations.



The Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE), was founded in 1981 at New Delhi, by a group of eminent HVAC&R professionals. ISHRAE today has more than 12,000 HVAC&R professionals as members and additionally there are 7,500 Student-members. ISHRAE operates from 41 Chapters and Sub Chapters spread all over India, with HQ in Delhi. ISHRAE is strategic industry body represented the whole HVAC industry in enabling first ever program of Heating Ventilation & Air Conditioning at graduate level. As part of the collaboration with Chitkara University, ISHRAE supported in setting up of model curriculum, faculty training, enabling setting up of largest HVAC lab and recognising graduating student with career support. Further endorsement from ISHRAE in recognition of HVAC program stands out as unique collaboration effort with industry body.



PSSC has been established with the objective of facilitating the skill development activities including capacity building for training delivery to meet the needs of the Power Industry that consists of conventional sector (Generation, Transmission and Distribution), Renewable Energy and Power equipment Manufacturing sector. Association of Chitkara University with PSSC brings new dimensions to the skill gaps identification, curriculum development, strategic academic alignment and talent generation. Together we offer, new age programs in electrical energy, management and energy audit domains.



ASDC is the 1st Sector Skill Council that was established by Ministry of Finance in India. It is formed in association with FADA, SIAM & ACMA bringing the whole ecosystem of Auto Manufacturing, Servicing and Component Manufacturing verticals. Chitkara University is partnering with ASDC to bring a new dimension to skill gap identification, curriculum development, talent generation, candidate assessment and certification through NSQF Framework for all qualifying candidates.



IPSC is a company incorporated under Section 25 of the Indian Companies Act 1956. Chitkara University and IPSC participate in Affiliation, Accreditation, Examination and Certification of all qualifying candidates in Plumbing and Public Health Engineering domain programs. In addition, IPSC works as a principle support body in enabling talent development for international skill competitions, which includes Worldskills and Euro Skills. IPSC supports Chitkara University's endeavour in creating full-fledged academic program in Plumbing and Public Health Engineering with technical cum knowledge support and periodical assessment of Plumbing Lab, which also includes certification of trainers and technicians.



Capital Goods Skill Council works with Chitkara University in redefining Mechanical Engineering program for the need of ever growing manufacturing industry in India. Under this joint initiative, profiles like manufacturing engineer, quality engineer and installation engineer are being redefined with the support of spruced up curriculum in addition to adequate industry exposure



ESSEL is a private limited company producing Faucets, Bath Fittings, Sanitaryware Fixtures and accessories; established as per guidelines framed by Indian companies act 1956 and was established in year 1998. This association was aimed at following:

1. To understand the shortage and also foreseen demand of skilled, knowledgeable and certified manpower in the Plumbing, Sanitation, Public Health Engineering & its allied sector.
2. Under this joint initiative, Essel will help in creating design faucet engineers and installation engineers for modern plumbing system.
3. To partner in helping create Asia's largest iconic plumbing lab.



Jain Irrigation is world's largest manufacturer of drip irrigation products. It has manufacturing plants worldwide. Jain specializes in large size pipes for water supply, waste water handling and irrigation water supply. Jain Irrigation is partnered with Chitkara University in creating Asia's largest iconic plumbing lab. They support us with curriculum of maiden plumbing engineering program on water supply domains. The support also extends in faculty training and student career support with appropriate recognition.



Mitsubishi Electric is a world leader in air conditioning systems for residential, commercial and industrial use. Challenged to create air conditioning systems that provide exemplary performance in the wide-ranging climatic conditions found throughout Japan, our engineers develop amazingly sophisticated yet durable units and systems capable of constant use under virtually any natural climatic condition on earth. Mitsubishi Electric India as principle collaboration industry partner takes responsibility of bringing industry blended curriculum, subject contents, pedagogy advocacy, faculty training, establishment of state of the art lab infrastructure, which makes learning truly world class. In addition Mitsubishi Electric along with Chitkara University shall also facilitate intensive internship, assessment of students and certification, which is globally recognized. What more, subject matter experts (SME's) from Mitsubishi Electric will be available in Chitkara University to oversee delivery of the program for quality, consistency and to bring special emphasize in hands on industry driven practical's.



Ashirvad stands as largest Pipe manufacturer in India with annual turn over crossing 130 Millions of INR. Ashirvad being market leader felt acute demand of qualified plumbing supervisors and plumbing engineers in India to execute leading projects. Ashirvad partnered with Chitkara University in creating Asia's largest iconic plumbing lab. Secondly, working closely to establish model curriculum and help in recognizing graduating student.



WITTUR is in the international elevator industry and defines itself as competence centre for the production and development of components and system packages for elevators and deploys its components on a worldwide basis. Chitkara University and WITTUR will jointly develop new customized courses, job roles, occupation standards and qualification competency- matrix for WITTUR suiting the market dynamics and ensuring availability of right talent pool for Indian growing elevator & escalator industry.



HONDA Motorcycle & Scooters in India is 2nd largest 2-wheeler manufacturer by market size. Honda visualizes the growing market of two wheelers in India and demand of talent pool, which is needed in providing quality service and customer experience. It is a reputed industry partner for Chitkara University in setting up model curriculum for two wheelers, faculty training and assessment of candidates. This initiative is actively supported by state of the art two wheeler technology labs, which was established and fully donated by Honda.



FIAT CRYSLER AUTOMOBILES in association with Chitkara University has established a largest footprint for automobile training of passenger cars in INDIA. This facility caters to training of FCA's field force and academic students of Chitkara University. Besides this FCA also partner with Chitkara in enabling talent development for World Skills and regional cum national competitions pertaining to automotive domains.



Schneider Electric is world's largest French multinational corporation that specializes in energy management and automation solutions, spanning hardware, software, and services. Schneider Electric is strategic electrical partner with Chitkara University and both jointly offer unique electrical program with specialization in Low Voltage domain. Under this initiative, Schneider Electric has trained & certified many faculties and also assisted in development of Industry led curriculum with much emphasis on hands on learning.



Ashok Leyland traces a successful history in India having travelled multiple decades spanning operations across Pan India. It is 2nd largest commercial vehicle manufacturer in India. Ashok Leyland has partnered with chitkara university in setting up commercial vehicle 4 wheeler training programs and effectively incorporated it as part of the curriculum in Mechanical Engineering program. Besides it provides training faculty and facilitate internship support, assessment of students and certification, which is globally recognized.



Fuji Electric, the driving force behind Eco Changes in a nation emerging as a major economy in the global market. Fuji Electric is focused on turning environmental responsibility into a profitable way of business while making profound social contributions to the nation. Fuji Electric along with Chitkara University shall facilitate intensive internship, assessment of students and certification of competency, which is globally recognized. What more, subject matter experts (SME's) from Fuji Electric will be available in Chitkara University time to time to oversee delivery of the program for quality, consistency and to bring special emphasize in hands on industry driven practical's.

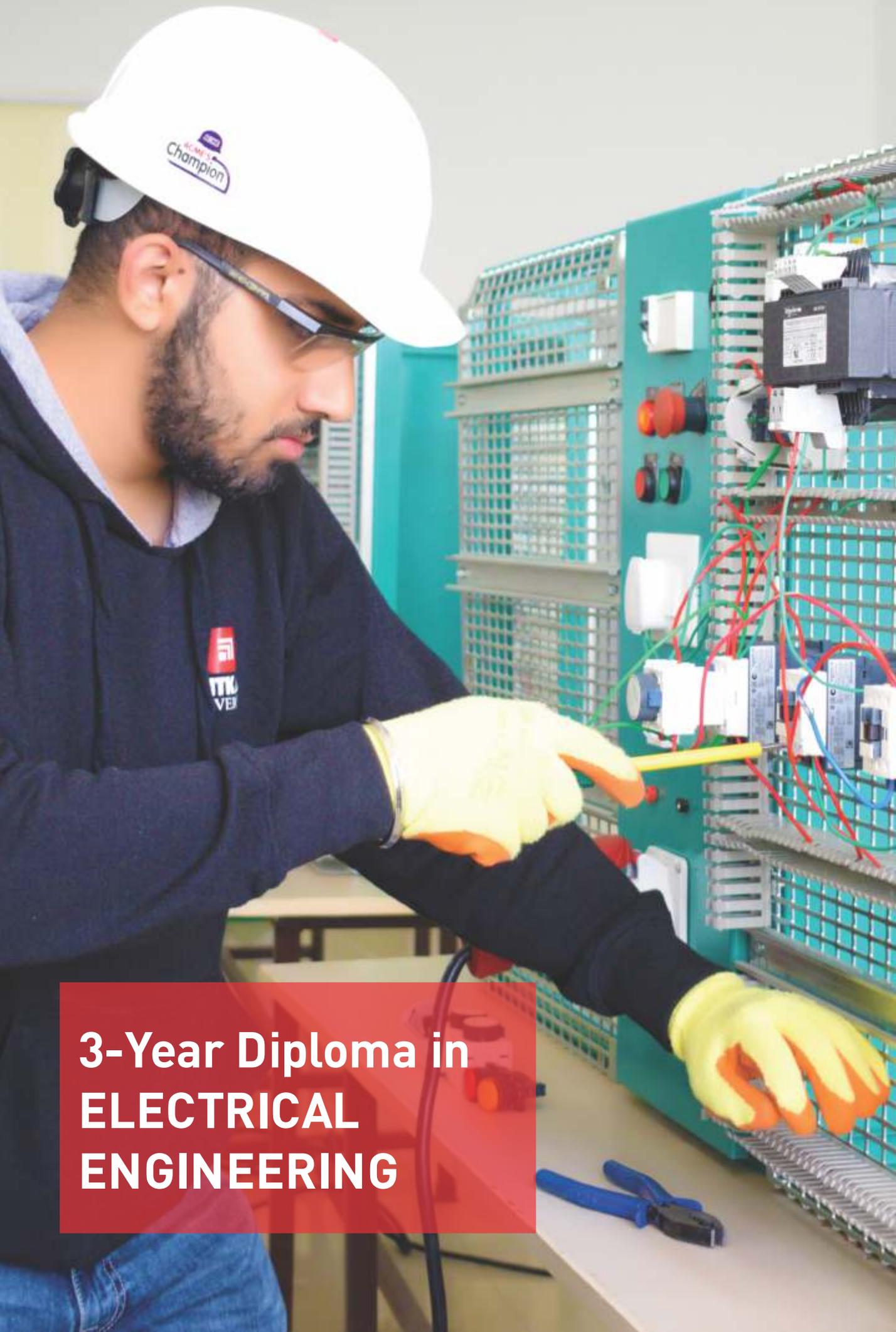


ESPA India is a subsidiary of ESPA Pumps Spain is in the business of importing and Supplying all pumps, pump accessories, booster sets for domestic, industrial, HVAC and commercial including swimming pool applications in India. ESPA and Chitkara University works jointly in developing job roles, occupation standards and qualification packs competency- matrix for the plumbing industry and develop the courses as per expectations of industry. Partner in creating Asia's largest iconic plumbing lab and help in recognizing graduating student with career support facilitate industry intensive internship.



SIEMENS is a subsidiary of Siemens AG, Germany is a well-established business conglomerate in India. With a focus on electrification, automation and digitalization, Siemens in India stands for engineering excellence, innovation, and reliability. As one of the world's biggest producers of energy-efficient, resource-saving technologies, Siemens is a pioneer in infrastructure and energy solutions (Building Technologies & Building Automation), as well as automation and software for Industry. Siemens and Chitkara University jointly work in developing roles, occupation cum working standards and qualifications, competency-matrix for the Building Technologies & Automation industry and develop the courses meeting the end employer expectations. Technical Training and Certification of teachers and students, Course standardization, jointly prepare courses and delivery methodology. SIEMENS will provide strategic support including faculty/candidate training, certification, and support in getting opportunities for internship for all qualifying students.





**3-Year Diploma in
ELECTRICAL
ENGINEERING**



3-YEAR DIPLOMA IN ELECTRICAL ENGINEERING

Electrical Engineering is one of the largest and most diverse technological and engineering disciplines in today's world. Electrical Engineering is the study and application of electricity, electronics and electromagnetism for the development and maintenance of electrical and electronics equipments such as electric motors, navigation systems, medical devices, broadcast and communication systems, power generation systems, electrical distribution systems, electric grids etc., while keeping in mind the safety, quality, economic feasibility and sustainability of these products and systems.

The Diploma in Electrical Engineering will focus on:

- A. Domestic Electrical Applications**
- B. Industrial Electrical Applications**
- C. Energy Utilization & Management**

India is growing-our economy, our population, our industry and our demand for energy. Electrical Engineers are specialists in the generation, transmission, distribution and utilization of energy. It's a powerful career choice that demands good problem-solving skills and an eye for detail. As the world prepares for the challenges posed by climate change and if you want to make a difference in combating this pressing global problem by innovating environment-friendly products, systems and services to improve quality of life, this Diploma in Electrical Engineering will put you on the right track.

Electrical Engineering will enable you to excel and grow in critical industry sectors such as energy & power, green buildings as well as the rapidly emerging clean and green technology sector. What's more, this program also prepares you to pursue further studies leading to undergraduate and postgraduate qualifications from reputed local and foreign universities.



STUDENT LEARNING OUTCOMES

Some of the key student learning outcomes for the Diploma in Electrical Engineering are as follows:

- Apply knowledge and technical expertise in building, analyzing, testing, operating and maintaining electrical, instrumentation, control systems and associated green technologies, including relevant industry standards and code of practices.
- To do maintenance, repair and production of electrical equipment and its systems.
- Procure, inspect and test electrical and electronic Engineering materials.
- To do fault diagnosis, repairing small electrical gadgets/domestic appliances, making joints and carrying out wiring work.
- To select, operate, maintain, test and repair/replace electrical machinery used in various industrial and domestic appliances.
- Ability to do industrial installation, laying cables, earthing, installing motors with their accessories, wiring and testing of control circuits.
- Preparing estimates of different kinds of jobs in domestic wiring, industrial wiring in transmission and distribution systems to install, erect and commission the power equipment.
- Designing wiring schemes for domestic and power installation and drawing layouts for wiring & industrial automation.



ACADEMIC FRAMEWORK

- The Diploma in Electrical Engineering is a 3-Year full-time program offered by **Chitkara College of Applied Engineering**, constituent institution of **Chitkara University**, Punjab.
- This program is offered in collaboration with **Schneider Electric & Power Sector Skill Council**, bringing a complete blend of academic learning and best hands-on support.
- There are six academic semesters including a dedicated intensive Industry Internship Program.
- Dedicated laboratories allow students to combine their practical and theoretical studies providing real-time simulation that prepares them for field situations.
- Curriculum is industry focussed to ensure the student stays connected with real time working.
- In addition, students will undergo assessment and certification by PSSC (Power sector skill council).
- Candidate will receive NSQF Certification enabling them to graduate as Electrical Supervisor from Chitkara College of Applied Engineering.



PROGRAM CURRICULUM

YEAR - 1

- Emphasis is laid on foundation science courses and basic courses in Electrical & Electricity.
- Intensive focus on developing communication skills, which equip students for better learning.

YEAR - 2

- Introduces students to the domestic electrical environment allowing them to read & prepare Electrical schematics, laying wiring and also applying concepts learned through electrical machines and electrical circuits.
- Later part of the year students learn, understand and work on automation in domestic & industry environments using newer techniques and equipments, which compliment real time environment and data logging for statistical power analysis solutions.

YEAR - 3

- Focuses on learning majorly in the domain of energy audit, energy quality and automation, preparing students for the niche market.
- With the acquaintance of knowledge in electrical, electricity and energy domains, students will undergo focussed and intensive industry internship program, resulting in practicing all the core learning in real life industry environment. Also, the student will prepare a major technical project, which demonstrates his learning and capability for launching a successful career with blue chip companies across the world.

CUTTING EDGE INFRASTRUCTURE

Major focus is laid on creating best-in-class lab & workshop infrastructure, which makes blended learning possible. The Electrical Engineering lab is equipped with advanced equipments from **Schneider Electric, France**, which allows deeper conceptual learning by simulating real time industry environment element of electricity & energy domains.

TECHNOLOGY LABS

- Basic electrical & electricity lab (AC & DC)
- Domestic wiring lab (Single & Multi Floor Concept)
- Industrial wiring lab (Single & Multi Panel Concept)
- Energy quality and energy audit lab
- Non conventional energy generation lab
- Power transmission & distribution lab
- Domestic switching & consumption lab
- AC machines & drives Lab

PRACTICE WORKSHOPS

- Individual cubes to allow students to lay piping, fittings and install electrical accessories
- Indian, European, American style of wiring layouts for practice & replication
- Space with all connections in place to conduct final certification assessments
- Open area (roof & floor) for construction and underground exercises
- Fitting workshop with all amenities
- Welding workshop with all amenities
- Height adjustable platforms up to 24 feet to allow students to work on various heights
- Building automation and building power management workshop
- Fire protection system workshop

SUPPORT INFRASTRUCTURE

- AC – 3 phase power supply (Uninterrupted)
- AC - Single phase power supply (Uninterrupted)
- 3 Phase 440V Solid State Bus Bar
- DC power supply (Uninterrupted)
- 64KW back up generator
- Single & Multi Stage Transformer with Capacitors
- Low voltage switch gear display area (Static & Functional)

INDUSTRY COLLABORATION



Schneider Electric is world's largest electrical & energy solution company having its headquarters at France. Since 1836 to till date, Schneider Electric has transformed itself into the global specialist in energy management. Starting from its roots in the iron and steel industry, heavy machinery, and shipbuilding, it moved into electricity and automation management. After 170 years of history, Schneider Electric has become today the solution provider that will help you make the most of your energy.

“Institute of Electricity & Energy Management” (IEEM) is the whole new initiative of Schneider Electric in association with French Ministry of Education, France jointly working to establish state-of-the-art learning facilities in Electricity & Energy Management domains across globe. As part of this initiative, Schneider Electric joined hands with Chitkara College of Applied Engineering an integral part of Chitkara University to offer Diploma in Electrical Engineering with special focus on electricity & energy management.

Schneider Electric as principle collaboration industry takes responsibility of bringing industry blended curriculum, subject contents, pedagogy advocacy, faculty training, establishment of state-of-the-art lab infrastructure, which makes learning truly world class. In addition Schneider Electric will also facilitate intensive internship, assessment of students & certification from IEEM, which is globally recognised. In addition, subject matter experts (SMEs) from Schneider Electric will be stationed in Chitkara College of Applied Engineering to oversee delivery of the program for quality, consistency and to bring special emphasis in hands-on industry driven practicals.

CAREER OPPORTUNITIES

FOR DIPLOMA ENGINEERS IN ELECTRICAL ENGINEERING

At Chitkara College of Applied Engineering, we are collaborating with major blue chip companies so that you can kick start your career on a winning note. Given below are some of the companies, which have huge requirement of Electrical Engineers.



Career opportunities abound in wide spectrum of industries as executives, specialists, technologists, Engineers or managers in:

- Electrical Engineering & Services
- Power Engineering
- Energy Management
- Facility Management
- Operations Management
- Sustainable Design & Solutions
- Clean Energy
- Research & Development

3-Year Diploma in Electrical Engineering program is recognised nationally and internationally. After completing the Diploma, you can also enter the 2nd year of B.Tech Degree through lateral entry in Engineering institutions across the country.



**3-Year Diploma in
CIVIL
ENGINEERING**



3-YEAR DIPLOMA IN CIVIL ENGINEERING

Civil Engineering is one of the ancient Engineering disciplines that deals with design, construction, maintenance of the physical and naturally built environment. To ensure safe, secure and modern structure for human rehabilitation becomes one of the core objectives of Civil Engineering domain. At its core, it deals with three of the natural resources available such as Air, Water & Land extensively.

India's fast growing population presents innumerable problems in personal and public housing and commercial complex systems. This, coupled with growing environment and green house gas laws bring unimaginable level of complexity to today's construction industry. Secondly, growing population and economy of India bring urbanization and enable construction industries to grow multifold in the last 2 decades. The demand for Civil Engineers is on the rise and will soon become the major choice for aspirants who seek a wonderful career. It's a powerful career choice that demands good problem-solving skills and an eye for detail. The job itself has a complete construction site & soil focus.

The Diploma in Civil Engineering will focus on:

- **Public Health Engineering**
- **Construction Engineering and Practices**

Our 3-Year Diploma in Civil Engineering also prepares you to pursue further studies leading to undergraduate and postgraduate qualifications from reputed local and foreign universities.



STUDENT LEARNING OUTCOMES

Some of the key student learning outcomes for the Diploma in Civil Engineering are as follows:

- Apply knowledge and technical expertise in building, analyzing, testing, operating and maintaining civil, green water, grey water and associated green technologies, including relevant industry standards and code of practices.
- To do maintenance, repair and production of plumbing, sanitation & water resources equipment and its systems.
- Procure, inspect and test civil and plumbing Engineering materials.
- To do industrial installation, laying pipes, installing different types of pumps with their accessories, wiring, testing of control & automation circuits.
- Preparing estimates of different kinds of jobs in domestic plumbing, industrial plumbing in transmission and distribution systems to install, erect and commission the water (fresh/waste) system.
- Designing water supply schemes for domestic and industry installation and drawing layouts for piping & building automation.
- Apply knowledge and technical expertise in designing, building, analyzing, testing, operating and maintaining civil, soil & construction systems, aggregates and components as per laid out instructions.
- To do maintenance, repair and management of construction sites, soils and other properties.
- Procure, inspect and test engineering materials related to Civil Construction Engineering.
- Preparing estimates of different kinds of jobs relating to new construction, site/colony development & maintenance of existing properties.



ACADEMIC FRAMEWORK

- The Diploma in Civil Engineering program is a 3-Years full time program offered by **Chitkara College of Applied Engineering**, constituent institution of **Chitkara University**, Punjab.
- This program is offered in collaboration with **IPSC** (Indian Plumbing Skills Council) which brings a perfect blend of seasoned learning with the best industry support (Public Health Engineering Specialisation).
- The specialisation of construction engineering & management part of Civil Engineering is offered in guidance with **CIDC** (Construction Industry Development Council) & **CSDC** (Construction Skill Development Council) to bring the best of the practices & learning followed by the industry.
- There are 6 academic semesters including a dedicated Intensive Industry Internship Program.
- Academic framework lays strong emphasis on hands-on learning. Courses in foundation, technology and advanced technology feature state-of-the-art lab infrastructure enable this without any hassles.
- Subjects carry intensive industry focus to ensure that the student stays connected with real working atmosphere all the time by means of live projects and active site visits.
- To get further ahead, you will work on latest cutting-edge lab, which not only simulates the real-time environment, but also makes you cope with field situations.

PROGRAM CURRICULUM

YEAR - 1

- Provides excellent foundation for the 1st Year diploma with emphasis on foundation science courses.
- Intensive focus on developing communication skills, which makes students equipped for better learning.
- Foundation skill gives hands-on learning in underground pipe laying, construction of man holes and inspection spot.
- 2nd part of the year allows students to learn basic courses in Electrical & Electricity backed by full hands-on experience in state-of-the-art labs.

YEAR - 2

- Introduces students to the basic civil environment with surveying & concrete technology and also plumbing codes, standards, work place preparation techniques, water supply (plumbing) in domestic & industrial area.
- In addition, allowing students to read & prepare plumbing/building schematics, laying pipes and also applying concepts learned through cold water, hot water supply and waste water disposal.
- Students learn advanced surveying, soil mechanics, concrete technology, structural Engineering subjects, which adds adequate flavour of construction engineering to the incumbent.
- In addition, students learn water supply functioning, design of drainage systems, sewage treatment plants including water recycling methods in actual. Student also learns advance piping layout schematics applied at large construction sites, commercial and industrial projects.
- Later part of the year, students learn pipe laying for domestic and industrial environment for better conservation of water.

YEAR - 3

- Brings altogether new focus to learning in water domain by focussing majorly in rain, storm water management, study, application and implementation of water based fire protection systems for high-rise complexes.
 - Students get the opportunity to learn and work on centralized heating systems, using water as primary fuel, and also work on advanced climate control chambers.
 - In addition, students learn green building practices to save energy and bring best recycling practices in domestic & industrial shelters.
 - With the acquaintance of knowledge in civil, construction, soil, structural, water and sanitation domains, students will undergo focused intensive industry internship program, which allows students to practice all the core learning in real life industry environment.
 - Students will also prepare a major technical project, which demonstrates his learning and capability to be part of blue chip companies across the world.
-

CUTTING EDGE INFRASTRUCTURE

Major focus is laid in creating best-in-class lab & workshop infrastructure, which makes blended learning possible. The lab is equipped with advanced structural equipments from **Jains, Hindware, Viega, Grundfos, ESSEL & Ashirvad** and complete layout from **IPSC**, which allows deeper conceptual learning by simulating real-time industry environment aspect of Public Health Engineering domains.

Technology Labs

Drinking water supply lab (Storing, RO & Hygienic Supply) Industrial water supply lab (Storing, Supply & Disposal)

- Sewage system lab
- Domestic house infrastructure
- Disabled toilet infrastructure
- Multi storied infrastructure (3 tier)
- Brick building & septic tank construction
- Public toilet infrastructure
- Modern flat infrastructure
- Hospital toilet infrastructure
- Underground piping (Open area)
- Drainage demo infrastructure

Civil Labs

- Structure and construction lab
- Computer lab
- Soil mechanics lab
- Hydraulics and fluid machinery lab
- Strength of materials lab
- Concrete and highway lab
- Survey lab
- Environmental engineering lab

Shower System Labs

- Simple VFD infra
- Hydro-Pneumatic infra
- Modern VFD & Rain flow infra

Practice Workshops

- Individual cubes to allow students to lay piping, fittings and install Cistern, wash basins and toilets (Conventional & Western Style)
- Space with all connections in place to conduct final certification assessments
- Open area (roof & floor) for construction and underground exercises
- Fitting workshop with all amenities
- Welding workshop with all amenities
- Height adjustable platforms up to 30 feet to allow students to work on various heights
- Basic electrical & electronics workshop
- Fire protection system workshop
- Central heating with various temperature control chambers simulation workshop

Support Infrastructure

- AC – 3 phase power supply (Uninterrupted)
- Drinking water storage pump house (Booster)
- Industrial water storage pump house (Booster)
- Rain/storm water storage tank
- Sewage Treatment Plant (STP)
- 64KW back up generator
- Sewerage forced disposal (Pump)
- RO set up
- Industrial water disposal set-up

INDUSTRY COLLABORATION



IPSC is a company incorporated under Section 25 of the Indian Companies Act 1956. The Indian Plumbing Industry faces the mammoth challenge of huge gap between the supply and demand of skilled workforce. Plumbing industry, since a long time, has been awaiting an opportunity to skill its workforce, and through the mandate of the National Skills Development Corporation (NSDC) has got an excellent opportunity to train its workforce with the latest skills, technology and best practices in the Industry.

The IPSC acts as an accrediting and certifying body; and will work to fill the gap of skilled and unskilled workforce in India. For this purpose, we are partnering associations and organisations, which share its vision, and work to upgrade the skills deficit in the plumbing (water resources) industry. The 11th Five Year Plan stressed the need to improve the skill level across all the sectors in the Indian Industry; this laid the foundation of the National Skills Development Corporation (NSDC). IPSC is the SSC for the plumbing industry in India to cater to its specific needs and demands.

IPSC as principle collaboration industry body takes responsibility of bringing industry-blended curriculum, subject contents, pedagogy advocacy, faculty training, and establishment of state-of-the-art lab infrastructure, which makes learning truly world class. In addition, IPSC will also facilitate intensive internship, assessment of students and certification from Ministry of Labor, which is globally recognised. What more, subject matter experts (SMEs) from IPSC & from allied industry will be there in Chitkara College of Applied Engineering to oversee the delivery of the program for quality, consistency and to bring special emphasis in hands-on industry driven practicals.

CAREER OPPORTUNITIES

FOR DIPLOMA ENGINEERS IN CIVIL ENGINEERING

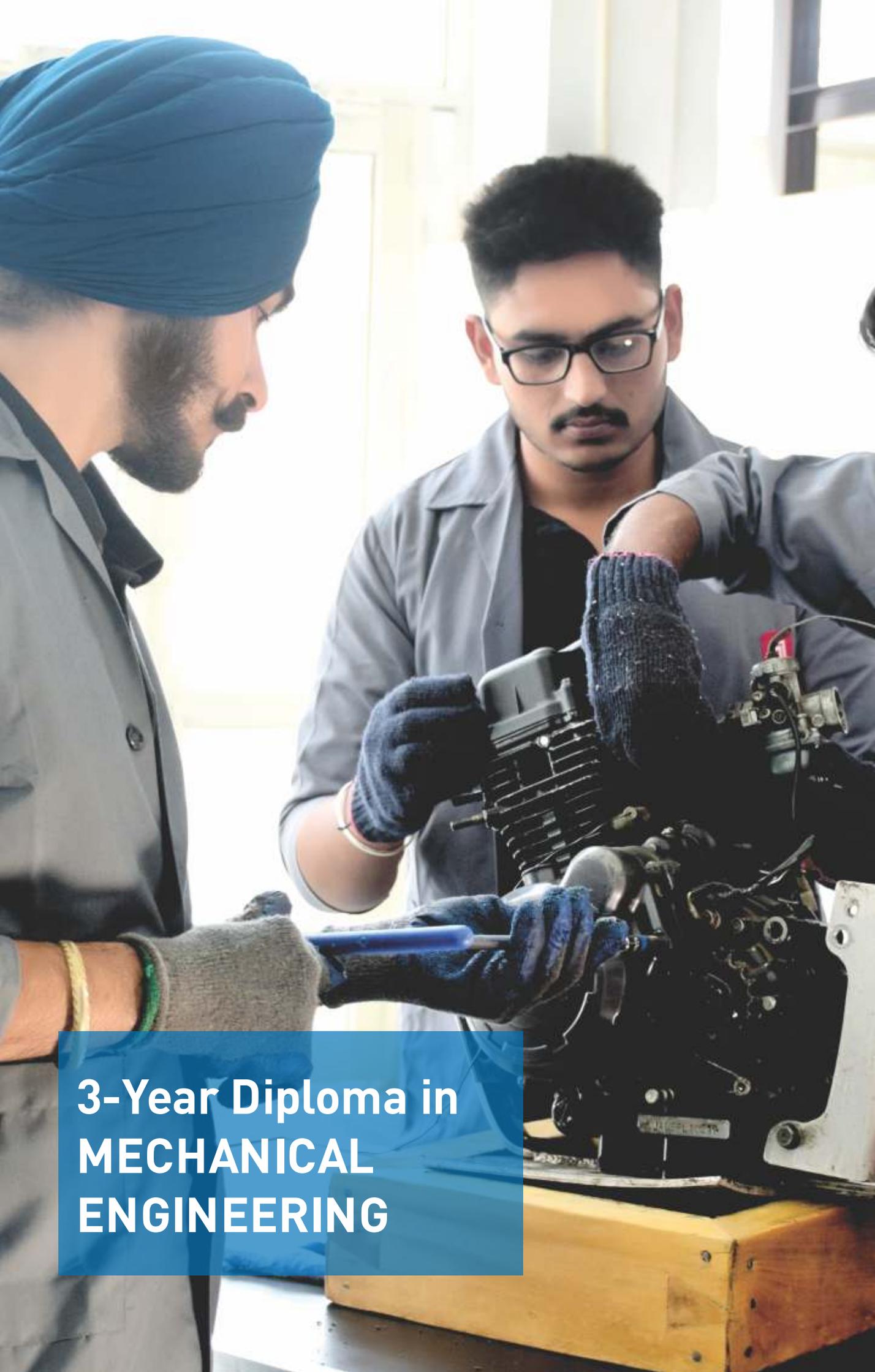
Given below are some of the companies which have huge requirement of Civil Engineers. At Chitkara College of Applied Engineering we are collaborating with major blue chip companies so that you can kick-start your career on a winning note.

Many of the world's largest construction and engineering companies including L&T, HCC, Technip, GMR Infrastructure, Shapoorji Pallonji & Co. and Gammon Infra regularly visit our campus for recruitments.

- Building Engineering & Services
- Water Resources Engineering
- Renewable Water Resources Management
- Facility Management
- Operations Management
- Sustainable Design & Solutions
- Clean Energy
- Research & Development

3-Year Diploma in Civil Engineering program is recognised nationally and internationally. After completing the diploma, you can also enter the 2nd year of B. Tech Degree through the lateral entry in Engineering institutions across the country.



**3-Year Diploma in
MECHANICAL
ENGINEERING**



3-YEAR DIPLOMA IN MECHANICAL ENGINEERING

The Diploma in Mechanical Engineering provides broad-based and diverse engineering learning in areas such as material science, solid and fluid mechanics, thermodynamics, fuels, combustion, instrumentation and control, product and system design and manufacturing. The impact of Mechanical Engineering touches almost every area of our lives. Mechanical Engineers are the creators, they not only create new technology but also innovate.

The Diploma in Mechanical Engineering at Chitkara College of Applied Engineering will focus on:

- Vertical Transportation (Elevators, Escalators and Autowalks)
- Manufacturing Engineering

India is growing - our economy, our population, our industry and our demand for modern infrastructure & sophisticated transport systems are steadily growing. Mechanical Engineers are specialists in the infrastructure design, development and maintenance, which include elevators, escalators & autowalks and advanced security arrangements. There's a lot of technology at work in today's commercial and institutional buildings, from energy efficient elevators to complex people movement systems (Auto allotment positioning on hi-rise structures). Building systems require regular, skilled maintenance - mechanical and technical Engineers. That's why Diploma Mechanical Engineers with specialisation in Vertical Transportation systems are in high demand.

Our 3-Year Diploma in Mechanical Engineering also prepares you to pursue further studies leading to undergraduate and postgraduate qualifications from reputed local and foreign universities.



STUDENT LEARNING OUTCOMES

Some of the key student learning outcomes for the Diploma in Mechanical Engineering are as follows:

- Apply knowledge and technical expertise in building, analyzing, testing, operating and maintaining mechanical, electrical, instrumentation and control systems associated with elevator technologies, including relevant industry standards and code of practices.
- To do maintenance, repair and production of Vertical Transportation equipment and its systems.
- Procure, inspect and test load cells and elevator engineering materials.
- To do fault diagnosis, repairing Vertical Transportation gadgets/domestic appliances, making joints and carrying out ducting & piping work.
- Enable to do industrial installation, laying pipes, ducting, earthing, installing indoor, outdoor units with their accessories, wiring, testing of control & operational circuits.
- Preparing estimates of different kinds of jobs in domestic, industrial installation in Vertical Transportation systems to install, erect and commission entire equipments.
- Designing & load estimation for domestic and industrial installation and drawing layouts for piping, ducting wiring & building automation.
- To do maintenance, repair and production of elevator & escalator equipment and its systems.
- Procure, inspect and test engineering materials related to elevator & escalator engineering.
- To select, operate, maintain, test and repair/replace mechanical/elevator machinery used in various industrial and domestic environment.
- Students will also prepare a major technical project, which demonstrates his learning and capability to be part of blue chip companies across the world.



ACADEMIC FRAMEWORK

- The Diploma in Mechanical Engineering is a 3-Year full time program offered by **Chitkara College of Applied Engineering**, constituent institution of **Chitkara University**, Punjab.
- This program is offered with guidance of blue chip companies like **KONE Elevators** bringing a complete blend of academic learning with best of industry support.
- There are six academic semesters including a dedicated **Intensive Industry Internship Program** facilitated by participating industry.
- Academic framework lays strong emphasis on learning through hands-on experience. Courses in foundation, technology and advanced technology feature state-of-the-art lab infrastructure enable this without any hassles.
- Subjects carry full industry focus to ensure that the student stays connected with real working environment all the time.
- To get further ahead, you will work on latest cutting-edge lab equipment, which not only simulate the real-time environment, but also prepare you to cope with situations on field.
- In addition, students will undergo assessment and certification by KONE Elevators.
- Candidate will receive NSQF Certification enabling them to graduate as Vertical Transportation supervisor from Chitkara College of Applied Engineering.

PROGRAM CURRICULUM

YEAR - 1

- Provides excellent foundation for the 1st Year Diploma with emphasis on foundation Science courses.
- Intensive focus on developing communication skills, which makes students equipped for better learning.
- 2nd part of the year allows students to learn basic courses in Electrical & Electricity backed by full hands-on experience in state-of-the-art labs.

YEAR - 2

- Introduces students to the basic mechanical environment, which allows them read & prepare mechanical schematics, material sciences, manufacturing processes and also applying concepts learned through strength of materials and fluid mechanics.
- Students learn thermodynamics, various machining processes that includes machining processes along with advanced mechanical drafting of machine elements.
- Courses like Metrology and Heat Transfer are taught in very innovative manner using cutting edge labs, which enable students to understand concepts and apply in real world situations.
- Later part of the year allows student to learn, understand and work on people movement and escalator installation processes in depth with adequate hands-on experiments to foster their conceptual understanding.
- Students will learn elevator systems, components, escalator systems, control systems & regulatory affairs giving them required depth of understanding and knowledge in core elevator & escalator engineering.

YEAR - 3

- Brings advanced learning in Vertical Transportation domain by focusing majorly in Installation operations and applications, which allows students to prepare themselves for niche domain with complete hands-on experience featuring Vertical Transportation industry of today & tomorrow (Vertical Transportation Specialisation).
 - Students will learn elevator electronics, telematics, communication systems, diagnostics and advanced transportation simulations and monitoring enabling them to meet & surpass of the expectations of vertical transportation industry.
 - With the acquaintance of knowledge in mechanical, materials, manufacturing in vertical transportation domain, students will undergo focused intensive industry internship program, which makes students practice core learning in real life industry environment.
-

CUTTING EDGE INFRASTRUCTURE

Major focus is laid in creating best in class lab & workshop infrastructure, which makes blended learning possible and the lab is equipped with advanced equipments which allows deeper conceptual learning by simulating real time industry environment part of **Vertical Transportation** (Elevators & Escalators) domains.

Technology Labs

- Refrigeration & Heat Pumps lab
- Air conditioning & Psychrometry lab
- Industrial refrigeration & cold storage lab
- Industrial air conditioning & cold chamber lab
- Heat Transfer lab
- Fluid mechanics, Hydraulics & Pneumatics machinery lab
- Strength of materials lab
- DC machines & drives lab
- AC machines & drives lab
- CAD, CAM & CAE lab
- HVAC efficiency & controls lab
- Elevator control lab
- Auto door shutting systems
- Escalator & Auto walk system lab
- Safety and cabin pressurization system

Practice Workshops

- Individual cubes to allow students to lay piping, fittings, ducting and install HVAC accessories
- Indian, European, American style of piping/ducting layouts for practice & replication
- Space with all connections in place to conduct final certification assessments
- Fitting workshop with all amenities
- Welding workshop with all amenities
- Foundation workshop with foundry, carpentry and smithy practices
- Height adjustable platforms up to 30 feet to allow students to work on various heights
- HVAC repair & maintenance workshop
- Central heating with various temperature control chambers simulation workshop
- Cabin Car system workshop
- Control gear workshop
- Drivetrain workshop
- Dynamometry workshop

Support Infrastructure

- AC – 3 phase power supply (Uninterrupted)
- 64KW back up generator
- Drinking water storage pump house (Booster)
- Industrial water storage pump house (Booster)
- Sewerage forced disposal (Pump)
- RO set-up
- Rain/storm water storage tank
- Industrial water disposal set-up
- Sewage Treatment Plant (STP)

INDUSTRY COLLABORATION



Industry first initiative to offer Diploma In Mechanical Engineering Program in Vertical Transportation ~

KONE's presence in India dates back to 1984 and today it is the leading elevator company in India. Based in Chennai, KONE India serves customers all over the country through its 40+ branches and provides sustainable People Flow™ solutions for India's rapidly growing cities. It employs about 4500 people in the country.

KONE's production unit in Chennai produces elevators for the Indian market as well as for Bangladesh, Nepal, Bhutan and Sri Lanka. At KONE's training centres, installation engineers and field mechanics are trained to meet KONE India's strong reputation for high quality and uncompromised safety, as well as the expectations of Indian customers, when installing and maintaining elevators and escalators. KONE's global technology and engineering centre is a testing and research hub, which supports the latest technology and development of future KONE solutions.

KONE contributes to sustainable urban development with eco-efficient solutions that offer energy savings in buildings and deliver the best user experience. KONE is a pioneer in developing Eco-efficient™ solutions. KONE along with the KCF (KONE Centennial Foundation) supports the social development of a local community in Chennai in collaboration with Single Teacher Schools.

KONE India, a leading Elevator & Escalator company in the country and Chitkara University have entered into a Memorandum of Understanding (MoU) to offer a full-time diploma program. With this MoU, KONE and Chitkara University will undertake Curriculum Development & Talent Management in Mechanical Engineering and related Diagnostics Skills requisite to the Vertical Transportation Industry.

CAREER OPPORTUNITIES

FOR DIPLOMA ENGINEERS IN MECHANICAL ENGINEERING

Given below are some of the companies, which have huge requirement of Mechanical Engineers. At Chitkara College of Applied Engineering, we are collaborating with major blue chip companies, so that you can kick-start your career on a winning note.

			 Enriching Lives
			 MITSUBISHI
			
			
			

Career opportunities abound in wide spectrum of industries as Executives, Specialists, Technologists, Engineers or Managers in:

- Mechanical & Elevator Engineering industry
- Cement, paper, chemical and other manufacturing industry
- Building services industry
- HVAC & Facility management industry
- Operations management
- Sustainable Design & Solutions
- Clean Energy & Automation
- Research & Development

3-Year Diploma in Mechanical Engineering program is recognised nationally and internationally. After completing the diploma, you can also enter the 2nd year of B.Tech degree through lateral entry in Engineering institutions across the country.



**3-Year Diploma in
AUTOMOBILE
ENGINEERING**



3-YEAR DIPLOMA IN AUTOMOBILE ENGINEERING

The study of Automobile Engineering is to design, develop, fabricate, and testing vehicles or vehicle components from the concept stage to production stage. Production, development, and manufacturing are the three major functions in this field. Automobile Engineering is a branch study of Engineering, which teaches manufacturing, designing, mechanical mechanisms as well operations of automobiles.

India is growing - our economy, our population, our industry and our demand for safe, secure & lean transport means are steadily growing. Automobile Engineering Technologists are specialists in the vehicle design, development and maintenance, which include all segments of vehicles, logistics, and service operation planning and reliable transportation support. That's why Automobile Engineers are in high demand for setting things right and that too on first time every time.

The job itself has an intense focus on mechanical manufacturing practices. You install, maintain and repair vehicle systems & sub systems. As the world prepares for the challenges posed by increase in population, ever changing climatic conditions, if you want to make a difference in combating this pressing global problem, as innovators of climate-friendly products, systems and services to improve quality of life, this integrated Diploma in Automobile Engineering will put you on the right track.

Our 3-Year Diploma in Automobile Engineering also prepares you to pursue further studies leading to undergraduate and postgraduate qualifications from reputed local and foreign universities.



STUDENT LEARNING OUTCOMES

The specific student learning outcomes of the Diploma in Automobile Engineering are as follows:

- Apply knowledge and technical expertise in building, analyzing, testing, operating and maintaining mechanical, electrical, instrumentation and control systems associated with Automobile technologies, including relevant industry standards and code of practices.
- To do maintenance, repair and production of Automobile vehicles, systems and its components.
- Procure, inspect and test automobile engineering materials.
- To do fault diagnosis, repairing vehicles of all kind and develop serviceability studies and recommend diagnostics & troubleshooting procedures to be followed uniformly.
- To select, operate, maintain, test and repair/replace mechanical machinery used in various industrial auto components manufacturing environment.
- Preparing estimates of different kinds of jobs in all types of vehicles which includes 2 wheelers, passenger vehicles, commercial vehicles and earth movers for their periodical maintenance and service upgrades.
- Design, analysis and development of performance vehicles, off track vehicles and rapid mass transport systems and its components.



ACADEMIC FRAMEWORK

- The Diploma in Automobile Engineering program is 3 years full time offered by **Chitkara College of Applied Engineering** an integral part of **Chitkara University**, Punjab.
- This program is offered in collaboration with **FCA India** (Fiat Chrysler Automobiles Group), **Honda 2 Wheelers**, **Ashok Leyland & ASDC** (Automobile Skills Development Council) being very unique offer bring complete blend of seasoned learning with best of the partners' bringing required industry support.
- There are 6 academic semesters including a dedicated Intensive Industry Internship Program.
- Academic framework lays strong emphasis on learning through hands-on experience. Courses in foundation, technology and advanced technology feature state-of-the-art lab/workshop infrastructure enable this without any hassle.
- Subjects carry full industry/domain focus to ensure student stays connected with real working atmosphere all the time.
- To get further ahead, you will work on latest cutting-edge lab/workshop co developed and co created with industry partners, which not only simulates the real-time environment, but also prepares you to cope up with field situations.

PROGRAM CURRICULUM

YEAR - 1

- Provides excellent foundation to the beginner, who has just laddered from secondary school with all foundation science courses.
- Later part of year allows students to learn petrol engine foundation and working principle backed by full hands on labs providing innovative learning at faster pace created by Honda 2 Wheelers.

YEAR - 2

- Introduces students to the basic mechanical & automobile environment, which allows them read & prepare mechanical schematics, material sciences, manufacturing processes and also applying concepts learned through strength of materials and fluid mechanics.
- Students learn thermodynamics, various machining processes along with advanced mechanical drafting of machine elements.
- Students hone their skills by applying their learning while experimentation in the lab, which features state-of-art equipments as available in the industry today.
- Courses like Measurements & Metrology and Heat Transfer are taught in very innovative manner using cutting-edge labs. Students are also exposed to automobile systems, components and working models.
- Later part of the year allows students to learn, understand and work on vehicle systems that includes chassis, powertrain, electrical and body to gain adequate knowledge in all types of vehicles.

YEAR - 3

- Brings altogether new perspective to learning in Automobile domain, by focussing majorly on fuel injection systems, exhaust systems and vehicle on board diagnostics systems connected with OBD scanner. The knowledge allows students to prepare themselves for the niche domain with complete hands-on learning thru innovative labs featuring Automobile industry of today & tomorrow.
 - With the acquaintance of knowledge in mechanical, materials, manufacturing, automobile and in on board diagnostics, students will undergo focused intensive industry internship program, which makes them practice core learning in real life industry environment.
 - In addition, student will prepare a major technical project, which demonstrates his/her learning and capability to the demanding work environment.
-

CUTTING EDGE INFRASTRUCTURE

Major focus is laid on creating the best-in-class lab & workshop infrastructure, which makes blended learning possible. The lab is equipped with advanced diagnostics equipments supplied by Jeep-USA, Honda-Japan & Bosch-Germany. This allows deeper conceptual learning by simulating real-time industry environment part of automobile and on-board diagnostics domains.

Technology Labs

- Petrol engine simulation and hands-on lab - Honda
- Petrol engine simulation and hands-on lab - Fiat
- Diesel engine simulation and hands-on lab - Jeep
- Manual & Automatic Gear Box workshop
- Chassis system lab including brakes, steering & integrated transaxle wheel drives
- Vehicle diagnostics & on board simulation and data logging lab
- Heat Transfer lab
- Fluid mechanics, Hydraulics & Pneumatics machinery lab
- Strength of materials lab
- DC machines & drives lab
- AC machines & drives lab
- CAD, CAM & CAE lab
- Fuel injection systems lab
- Vehicle climate control systems & diagnostics lab
- Engine testing dynamometry & performance measurement set-up

Practice Workshops

- Wheel & tyre geometry setting infrastructure
- Full range of hands tools, power tools & support tackles for engine assembly & disassembly
- Vehicle air conditioning workshop with state of the art equipment RobinAir from USA & EATC diagnostics set up from Bosch-Germany
- Fitting workshop with all amenities
- Welding workshop with all amenities
- Foundation workshop with foundry, carpentry and smithy practices
- Height adjustable platforms up to 30 feet to allow students to work on various heights
- Turbo charger & Common rail injection service set-up with clean room and temperature control
- Vehicle electrical & electronics including trouble shooting set-up with bread board, diagnostics tools for tracing faulty circuits and electrical components
- Central charging station for restoring battery energy and battery charge management & diagnostics set-up

Support Infrastructure

- AC – 3 phase power supply (Uninterrupted)
- AC - Single phase power supply (Uninterrupted)
- 3 Phase 440V Solid State Bus Bar
- DC power supply (Uninterrupted)
- 64KW back up generator
- Full set of hand tools, power tools clubbed with trollies to ensure every student has grip of tools & tackles
- Personal protective gear for all students including gear to work on different heights
- Advance integrated vehicle on-board diagnostics equipments supplied by industry partners

PROGRAM COLLABORATION AND PARTNER



AUTOMOTIVE SKILLS DEVELOPMENT COUNCIL

ASDC (Automotive Skills Development Council) was established by NSDC (National Skills Development Corporation) part of MSDE (Ministry of Skill Development & Entrepreneurship) to work exclusively on Automobile & allied industries covering Manufacturing, Sales, Servicing, R&D, and Auto Finance. This was the first sector skill council which came into existence in India after the formation of NSDC. It is jointly promoted by ACMA, FADA, and SIAM & DHI to ensure skill ecosystem to cater ever-growing auto industry in India. ASDC shall be responsible for defining the scope/syllabus/curriculum outline/curriculum standard/content of the training program. Setting the qualification standards for the Trainers. Setting the qualification standards for the Trainee. The Training, Assessing & Certifying the Trainers of Chitkara University from time to time. Designing the training curriculum and training modules. Providing training standards for the trainees as well as trainers to the Training Partner. Accrediting and approving the existing training program/programs of the Training Partner provided it meets the accreditation criteria of ASDC.

Assessment of Trainees post completion of training. Certification of Trainees based on the qualification, assessment & skill attained. Maintaining a database for Trainees who have successfully completed the program. Assist in Coordination with industry and overall promotion of the program.

Chitkara College of Applied Engineering has established cordial relationship with some of the leading auto giants in India like FCA (Fiat Chrysler Automobiles), Honda 2 Wheelers, Ashok Leyland Limited, UM Motors, Mahindra Swaraj, JCB, Claas & Bosch to name a few. As a principle collaboration industry they take responsibility of bringing industry-blended curriculum, subject contents, pedagogy advocacy, faculty training, and establishment of state-of-the-art lab infrastructure, which makes learning truly world class.

In addition, they will also facilitate intensive internship, assessment of students for the fitment in industry. What's more, subject matter experts (SMEs) from these industry partners will be there in Chitkara College of Applied Engineering to oversee delivery of the program for quality, consistency and to bring special emphasis in hands-on industry driven practical.



CAREER OPPORTUNITIES

FOR DIPLOMA ENGINEERS IN AUTOMOBILE ENGINEERING

Given below are some of the companies, which have huge requirement for Automotive Engineers. At Chitkara College of Applied Engineering, we are collaborating with major blue chip companies, so that you can kick-start your career on a winning note.



Career opportunities abound in wide spectrum of industries as Executives, Specialists, Technologists, Engineers or Managers in:

- Mechanical & Automobile Engineering industry
- Auto components manufacturing industry
- Automotive sales & service industry
- Off track, race track and performance vehicle design studios
- Operations Management
- Sustainable Design solutions for pollution friendly
- Research & Development
- Entrepreneurship & own venture

The Diploma in Automobile Engineering program is recognised nationally and internationally. In addition, all major Mechanical and Automobile industries in India & abroad are connected to this program and they recognise it. The program allows you to further your studies at reputable local and overseas universities through Lateral Engineering Entry Scheme. Students can join Engineering Degree directly into the 2nd year, if one wishes to pursue higher education to bring further knowledge and growth.



STUDENT LIFE

EXCITEMENT DEFINED





There are countless opportunities to get active and involved,

engaged and enriched, and we want you to become a part of our diverse community of people who work together to make an impact on the future and have fun in the present.

With more than 20 student clubs and organisations based on a wide range of academic, cultural, and recreational areas of interest, you can find a way to express yourself.

Join, lead, or start your own - the important thing is to participate. Engaging with these organisations helps build strong connections with fellow students, provides personal growth, and enhances your Chitkara experience.

Student life at Chitkara University is more than just an ardent toil next to a big pile of books.

The wide range of clubs and student associations, as well as the surrounding environment, provide memorable experiences ranging from culture to extreme sports.

**AUTOMOBILE
CIVIL
ELECTRICAL
MECHANICAL**

CHITKARA
UNIVERSITY



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