

ENGINEERING DOMAIN REPORT



Assessment Candidate Details

Personal & Academic Overview

Personal Details

Full Name: Yashvardan Rane

Candidate ID: CTU 2025A12345

Family Details

Father's Name: Kulvant Rane

Mother's Name: Monika Rane

Academic Details

School Name: DAV Sen Sec School, Jalandhar

Class/Stream : Non-Medical

DISCLAIMER

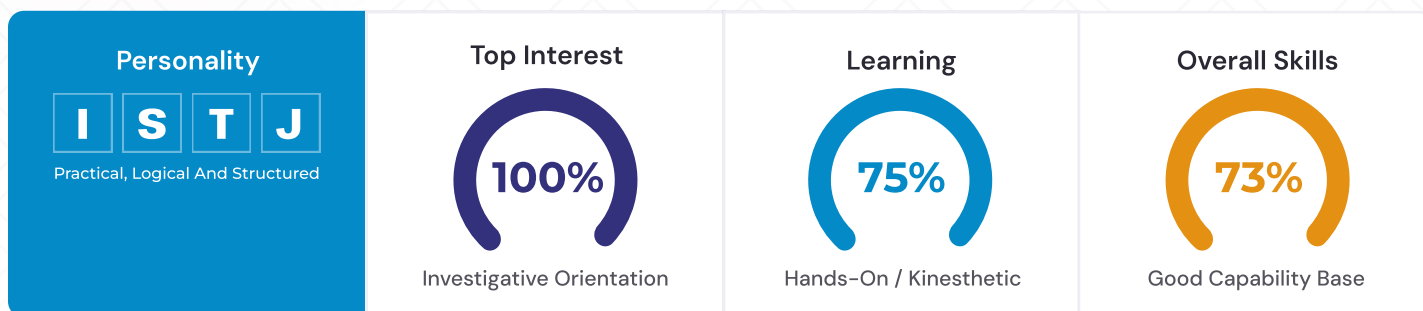
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Your Profile at a Glance



• How To Read This Snapshot

- I-S-T-J indicates a practical, logical and organised work style with a preference for clear standard
- Investigative interest shows strong curiosity for research, analysis, technology and complex problem-solving.
- A 75% kinesthetic preference means concepts are understood best through demonstrations, practice and real tasks.
- The 73% overall skills score is supported by excellent mechanical, social and leadership strengths.

• Current Career Planning Stage

Structured Exploration Needed

The student is exploring and should not finalise one pathway only from test scores.

Compare three to four priority pathways through projects, counselling and professional interaction.

Improve numerical ability before choosing highly quantitative or data-heavy programmes.

COUNSELLOR INTERPRETATION

- The profile combines analytical curiosity, mechanical strength, leadership potential and responsible work habits.
- The best options should offer structure, ownership, practical exposure and continuous learning.
- Career choices should be validated through laboratories, field visits, mini-projects and conversations with professionals.
- Numerical confidence is the main development priority for statistics, data science and other mathematics-intensive routes.
- Shortlist careers using four checks: interest, ability, work environment and entry feasibility.

Career Personality Profile

These dimensions describe reported preferences and natural tendencies — not fixed limits. Read each as a spectrum, not a category

Energy Focus

Introvert

100%

- Gains energy from reflection, quiet settings and focused independent work.
- Usually thinks before speaking and develops ideas internally before sharing.
- Listens carefully, observes deeply and may prefer smaller groups.
- Can perform strongly in teams when given preparation time and a clear role.

Information Style

Sensing

71%

- Trusts facts, details and information that can be observed or verified.
- Learns best through examples, demonstrations and step-by-step practice.
- Focuses on present needs and practical applications rather than only abstract ideas.
- Builds understanding by connecting new learning with previous experience.

Decision Style

Thinking

100%

- Uses logic, evidence and objective criteria when making decisions.
- Looks for clear explanations, consistency and solutions that work.
- Stays task-focused and may communicate directly while solving problems.
- Builds understanding by connecting new learning with previous experience.

Work Approach

Judging

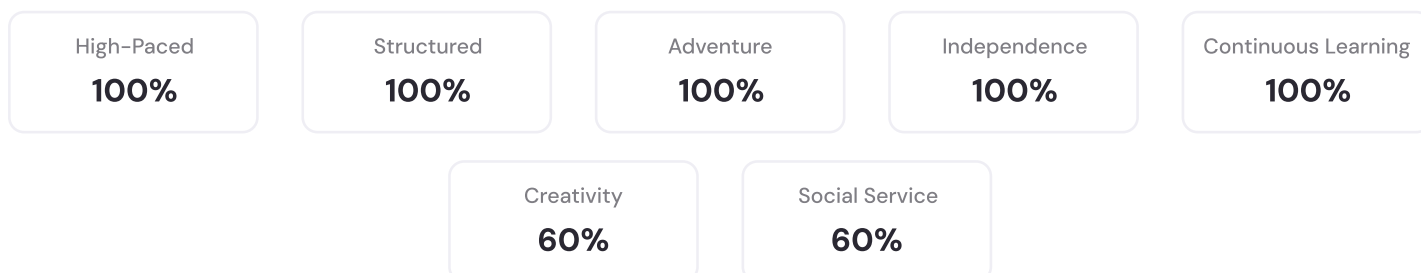
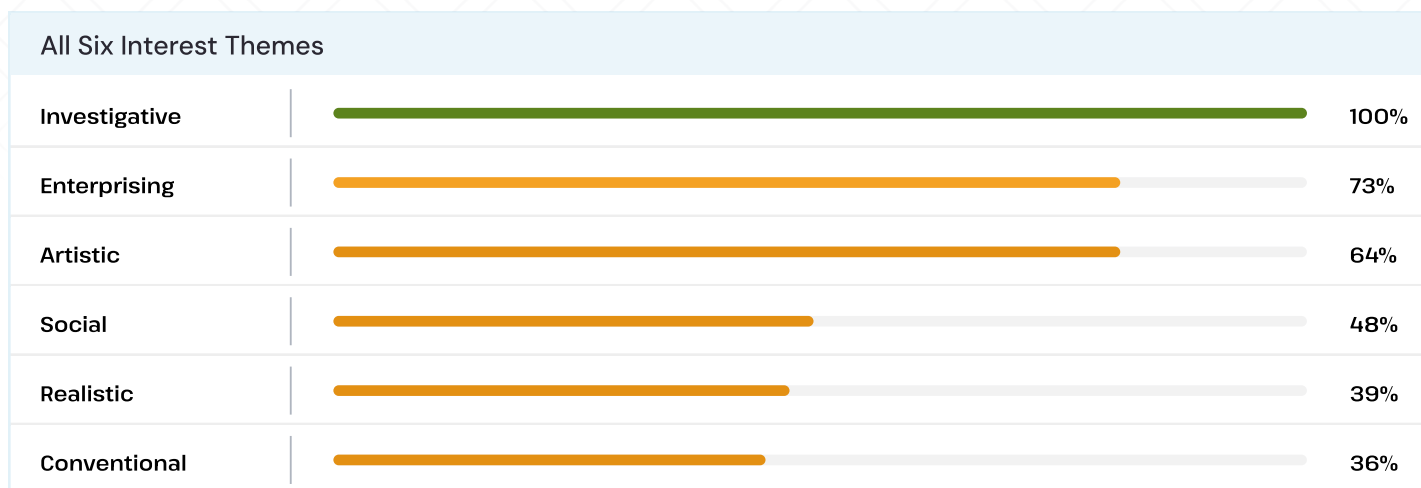
57%

- Prefers plans, routines, deadlines and an orderly way of working.
- Feels productive when tasks are decided, organised and completed.
- Uses sequential thinking and likes clarity about what happens next.
- Can grow by remaining flexible when new information changes the plan.

Interests And Career Motivators

Interest scores show which work activities and themes naturally attract the student. Use the top themes for exploration, then check ability, eligibility and real-world exposure.

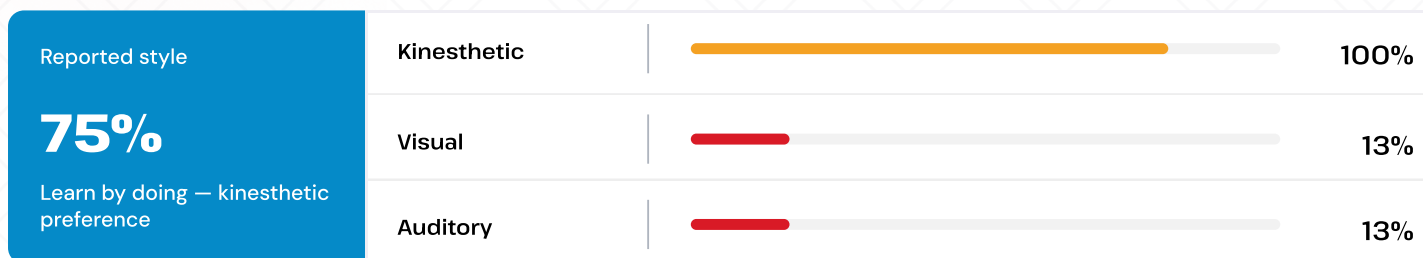
• Interest Pattern



WHAT THIS MEANS FOR CAREER CHOICE

- The student is likely to enjoy demanding roles with pace, clear procedures and measurable responsibility.
- Independence is important; excessive supervision or repetitive group dependence may reduce motivation.
- Adventure and continuous learning suggest comfort with field exposure, changing challenges and skill development.
- Creativity and social service can complement the main pathway but are not the dominant decision factors.

Learning Preference & Study Strategy



• Auditory

- They can remember quite accurately details of information they hear during conversations or lectures
- They have strong language skills, which include a well-developed vocabulary and an appreciation for words.
- The strong language skills often lead to strong oral communication skills. They can carry on interesting conversations and can articulate their ideas clearly.
- Because of a “fine tuned ear,” auditory learners may find learning a foreign language to be relatively easy

• Learning Suggestions

- Stand up if you are in High school or Middle school, ask the teacher first, before you are not labeled as disruptive
- Bring a rubber band to class and wrap and unwrap it around your hand or pencil.
- When studying and answering questions, bounce a tennis ball against the wall or floor
- Underline, highlight or make notes while you read. Using efficient reading strategies will help you stay focused.
- Tense and relax your muscles during long lectures.
- Bounce a leg up and down to release some of the energy.

• Preferred Encouragement Strategies:

Hugging, touching as they like and respond to physical rewards, like to be rewarded with concrete things because it makes them feel good when they can touch the tangible reward e.g. things of high quality or with a good texture, can be rewarded with assembled toys, handicraft, outdoor tours, tasty food, huggable pillow or cuddly push doll with nice texture.

Skills And Abilities Dashboard

Overall

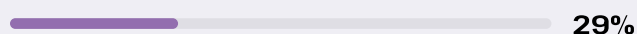
73%

Good

- Strongest areas: social cooperation, mechanical ability and leadership.
- Good verbal ability supports communication and presentation.
- Numerical ability is the main development priority.

Numerical

Priority



- Understands quantities, calculations and numerical data.
- Needs improvement for statistics and other data-heavy pathways.
- Practise arithmetic, graphs and applied problem sets daily.

Logical

Developing



- Recognises patterns, cause-effect and step-by-step solutions.
- Supports science, technology, research and troubleshooting.
- Strengthen through reasoning puzzles, coding and case analysis.

Verbal

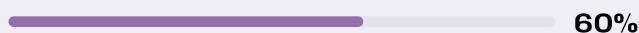
Strong



- Communicates ideas clearly through speech and writing.
- Useful for reports, presentations, interviews & teamwork.
- Helps explain technical information to different audiences.

Organising

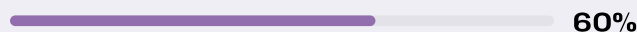
Developing



- Plans tasks, schedules time and coordinates resources.
- Supports deadlines, projects, operations & administration.
- Use weekly plans, checklists and clear prioritisation.

Spatial

Developing



- Visualises shapes, layouts and relationships in space.
- Relevant to engineering, architecture & technical drawing.
- Improve through diagrams, models, CAD & visual puzzles.

Leadership

Excellent



- Takes initiative, makes decisions and guides others.
- Supports science, technology, research and troubleshooting.
- Strengthen through reasoning puzzles, coding and case analysis.

Social

Excellent



- Cooperates, understands people & builds relationships.
- Valuable in teamwork, service, leadership & client roles.
- Use this strength to build trust & resolve group challenges.

Mechanical

Excellent



- Understands tools, machines & practical physical systems.
- Excellent fit for engineering, maintenance & manufacturing.
- Develop further through labs, models & hands-on projects.

The Importance of

The Assessment



**CHOOSE
THE RIGHT STREAM**



Discover The Most Appropriate Subjects Stream

We cannot find wiser words which resonate with our philosophy than the following from Mark Sullivan who headed the United States Secret Service till 2013.

To find a career to which you are adapted by nature, and then to work hard at it, is about as near to a formula for success and happiness as the world provides. One of the fortunate aspects of this formula is that, granted the right career has been found, the hard work takes care of itself. Then hard work is not hard work at all

These words have been proven right time after time and the CU General Aptitude Assessment has been designed to assist you in selecting the most appropriate career pathways which suit not only your aptitude but also your temperament and natural propensities. The purpose is not to merely build a career but also to build a life that is fulfilling, rewarding and joyful.

• Why

There comes a time in each student's life when he or she has to make a choice between subjects and streams which will eventually shape not only the career but also the life ahead. Very often the choices are made on the basis of factors that are extrinsic and not intrinsic

But look at the achievers in the world and it is not difficult to notice that people who have succeeded are the ones who have followed intrinsic factors:

1	Parents The choice is imposed by parents or relatives	2	Role Model The choice is inspired by role models
3	Peers The choice is determined by what others including peers are opting for. The suggestions are normally considered 'safe' choices.	4	Trends The choice is influenced by current and projected trends – engineering, accountancy, medicine, management etc.



Engineering & Technology

Aptitude Assessment based on Intrinsic Factors

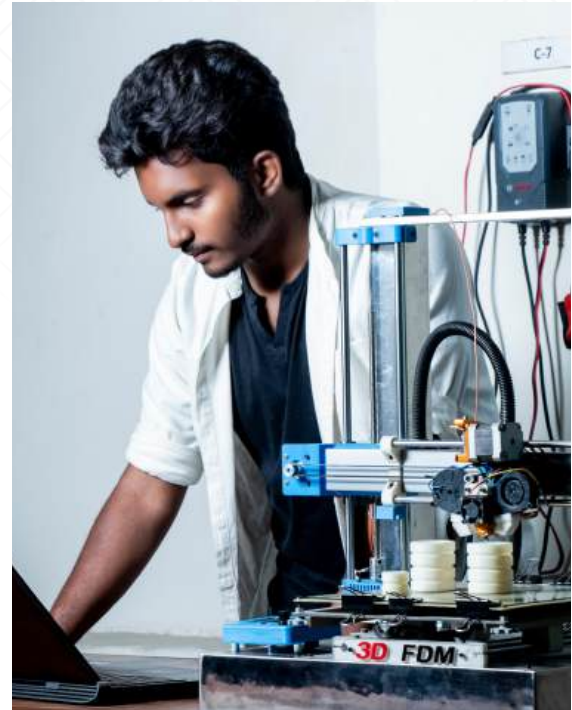
• Why study Engineering & Technology?

Engineering and Technology are separate but closely related professional areas. Engineering programs often focus on theory and conceptual design while Technology programs usually focus on application and implementation.

Engineers and Technologists shape the world by turning ideas into practical reality and are involved in the design and manufacture of almost everything – from computers to aero-planes, from houses to highways, from instruments to machinery.

• Course Overview

Engineering & Technology applies scientific knowledge to solve human problems and design new products. Engineers use imagination, logic, judgment, reasoning and experience to design, manufacture and operate products.



The traditional engineering & technology domain was considered to be restricted to:



Electrical Engineering



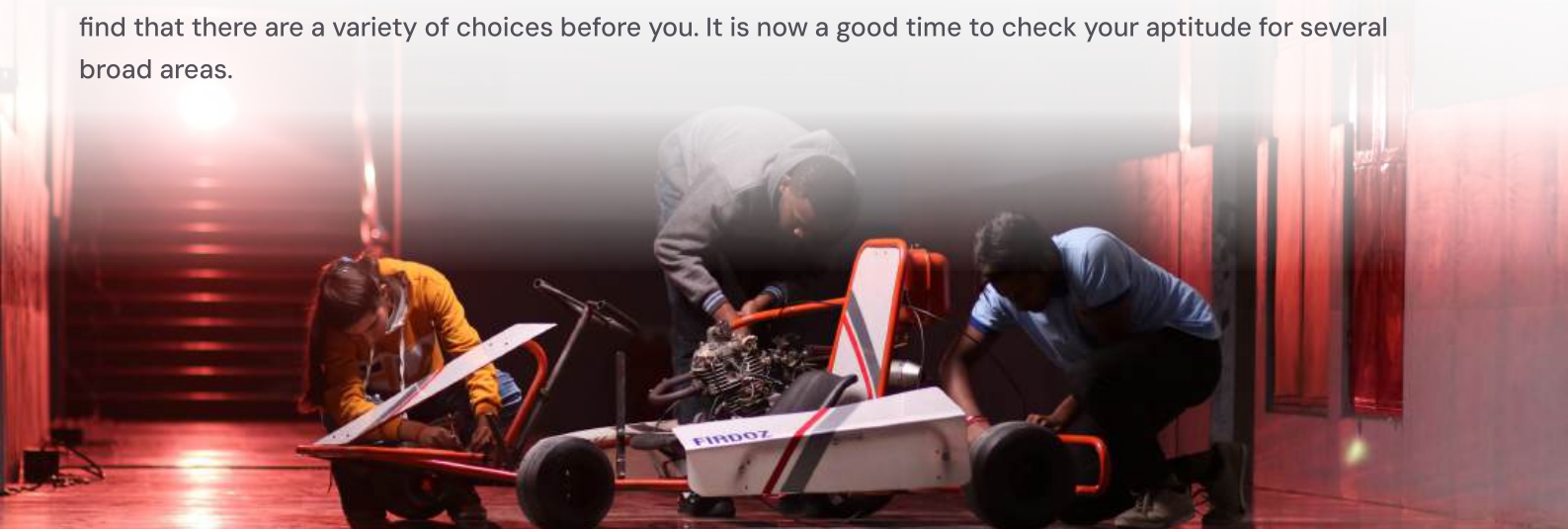
Engineering



Civil Engineering

Now a wide choice is available and the career options can be viewed in terms of Clusters which draw upon sets of aptitudes, interests and passions.

If you have opted for the PCM Stream and are keen on making a career in Engineering & Technology you will find that there are a variety of choices before you. It is now a good time to check your aptitude for several broad areas.



Aptitude/Passion/Interest Index

for Engineering & Technology Courses

The graphical representation below indicates your Aptitude + Passion + Interest Index (API) for each of the Engineering & Technology Clusters. The assessment is based on a weighted assessment of parameters critical to each cluster.

• API Index Results (Aptitude + Passion + Interest)



• Top Recommendations

Primary Recommendation: Constructive Cluster

The assessment strongly recommends the Constructive Cluster. This cluster involves construction and production – drawing on observation, involvement, management and analytical skills. Recommended career options include

Civil Engineering

Mechanical Engineering

Naval Construction Technology

Aeronautical Engineering

Automotive Engineering

Electrical Engineering

Secondary Recommendation: Process Cluster

This cluster is ideal for students who enjoy understanding how systems, industries, and workflows operate efficiently. It focuses on process management, production flow, problem-solving, analytical thinking, and improving overall performance within industries.

Process Engineering

Production Engineering

Automation Engineer

Supply Chain Engineer

Pharma Production Engineer

Automation Engineering

Design Engineer

How to Interpret

The graphical representation below indicates your Aptitude + Passion + Interest Index (API) for each of the Engineering & Technology Clusters. The assessment is based on a weighted assessment of parameters critical to each cluster.

A High API Index (towards the green zone)

indicates a high intrinsic potential for excellence and achievement.

A Low API Index (towards the red zone)

indicates a need for realigning your effort and preferences as you may find it a bit challenging and may be not engaging enough.

A Median API Index (somewhere in the middle)

indicates a 'Can DO' scenario where you may wish to invest effort and resources depending upon your ultimate career progression plan.

• Aptitude + Passion + Interest Index (API)

Cluster	
★ TOP Constructive Cluster	Civil Engineering, Mechanical Engineering, Naval Construction Engineering, Aeronautical Engineering, Automotive Engineering, Electrical Engineering
★ TOP Process Cluster	Process Engineering, Production Engineering, Instrumentation, Pharmaceutical Process, Process Automation
Chemicals Cluster	Chemical Engineering, Plastics and Polymers, Petroleum, Mining, Metallurgical
AI/ML, Cybersecurity	Artificial Intelligence, Machine Learning, Cybersecurity, Data Science, Cloud Computing, Robotics & Automation, Internet of Things (IoT), Blockchain Technology, Ethical Hacking
Logic Cluster	Software Engineering, Computer Engineer, Automation & Robotics, Electronics & Telecom, Instrumentation
Nature Cluster	Environmental Engineering, Biotechnology, Agricultural Engineering, Food Technology, Leather Technology
Emerging Technologies	Sound/Audio Engineering, Ocean Engineering, Data Virtualization/Cloud Computing, Additive Manufacturing/3D Printing, Energy Systems, Nanotechnology, Simulation
Design Cluster Technology	Architecture, Design Engineering, Process/Product Design, Ergonomics, Urban Design, Fashion Technology

Management

Perspective



• Preferred Style

The student prefers a structured, organised and practical working environment where expectations, responsibilities and outcomes are clearly defined. A strong Thinking preference (100%) indicates a logical and evidence-based approach to decision-making, while the Judging preference (57%) supports planning, prioritisation and completing tasks in an orderly manner.

Their strong leadership (93%), mechanical (100%) and social (100%) abilities suggest potential to take initiative, coordinate activities and contribute effectively to practical, project-based environments.

Excessive supervision or repetitive group dependence may reduce engagement, while clear goals, meaningful challenges and opportunities to take ownership can encourage stronger performance.

• Communication expectations

The student tends to communicate thoughtfully and prefers clear, factual and purposeful interactions. The strong verbal ability (80%) supports explaining ideas, presenting information and communicating technical concepts effectively.

With a strong Introvert preference (100%), they may prefer time to reflect and organise their thoughts before contributing, particularly in unfamiliar or large-group situations. Providing clear expectations and allowing preparation time can help them communicate with greater confidence.

Their excellent social ability (100%) indicates that, despite a preference for focused and independent work, they can cooperate effectively, build relationships and contribute positively to teams.



• Motivational Needs

The student is likely to be motivated by challenging goals, measurable outcomes and opportunities to continuously develop their skills. Their interests show very high levels of independence, structure, adventure and continuous learning, suggesting a preference for environments that provide both stability and meaningful challenges.

Practical exposure, projects, laboratories, field experiences and real-world problem-solving are especially relevant given the strong kinesthetic learning preference (75%) and excellent mechanical ability (100%).



Your Voyage ...Our Beacon

Constructive Cluster & Process Cluster

Thank you for completing the Career Assessment Test.

This Career Assessment Report has helped you identify your interests, aptitude, personality, and potential strengths. These insights can serve as a valuable guide as you explore academic pathways and future career opportunities that align with your aspirations and potential.

Every successful professional begins with curiosity, a willingness to learn, and the courage to explore new possibilities. As you move forward, continue to strengthen your potential through skill development programs, workshops, certifications, experiential learning opportunities, interactions with mentors and industry experts, and exposure to real-world environments.

The world is evolving rapidly, and new opportunities are emerging every day. By embracing continuous learning, developing future-ready skills, and remaining open to new experiences, you can confidently navigate the path ahead.

You possess unique strengths and the potential to excel. The choices you make today, combined with meaningful experiences and a commitment to growth, will help shape a successful and fulfilling future.

Remember: The future belongs to those who embrace learning, pursue excellence, and remain open to new opportunities.

Let your strengths guide you. Let your curiosity inspire you. Let your actions shape your future.



The Primary Career Options that arise are

★ TOP CONSTRUCTIVE CLUSTER

Civil
Engineering

Mechanical
Engineering

Naval
Construction
Technology

Aeronautical
Engineering

Automotive
Engineering

Electrical
Engineering

The Secondary Career Options that arise are

★ TOP PROCESS CLUSTER

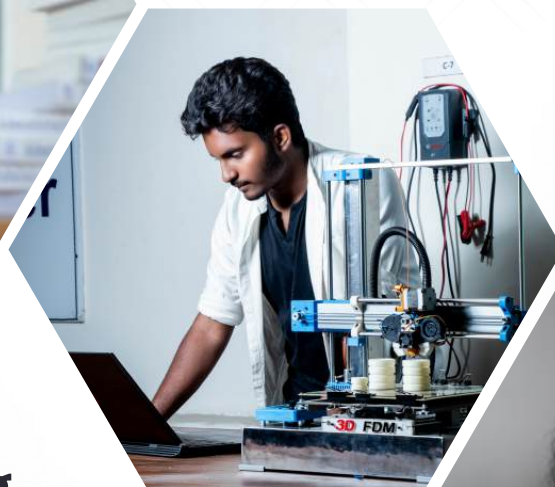
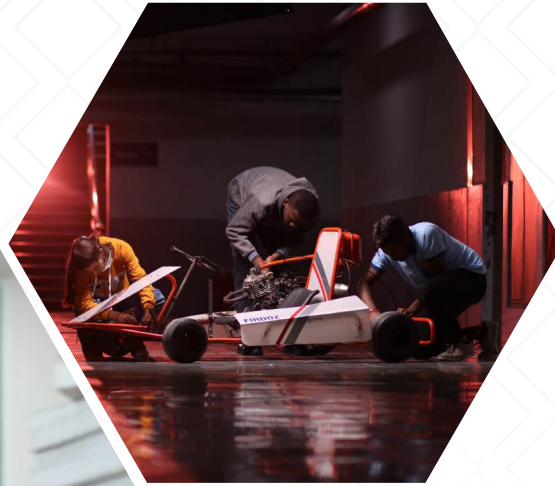
Process
Engineering

Production
Engineering

Instrumentation
Technology

Pharmaceutical
Process
Engineering

Automation
Engineering



Empowering Every Learner To Succeed

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