Arise, Awake and Stop Not till the Goal is Reached.

- Swami Vivekanand
Risk

“Risk comes from not knowing what you are doing.”
What is your class 12 Results?

- Opens door for admission in College
- To write entrance exams like TS EAMCET, JEE etc
Future of Engineering???
New national programs designed to transform India for next generation of growth & development
Engineers – Demand vs. Supply

- Supply
- Demand

2009

2014

Demand increases @ 4% per year

May be in 2020
How to Select Branch???
Where find lies Your Interest?

- Excites the curiosity
- Based on your skills & Strengths
Look Behind the Scene
What is Branch?

- Area, Domain or Type of work where you will work for entire life.

College = Path to achieve Goal

Branch = Goal, Destination, Career
Types of Branch

Branches

40+

Basic (Core) Branches

Specialized Branches

Other Branches

Colleges

130+
Basic Branches

- Used or applicable in *most of the industries*
- Wide spectrum of *jobs, job areas, location & business scope*

- Aeronautical
  - Propulsion systems,
  - Flight mechanics
  - Guidance and control
  - Systems,
  - Aerodynamics
  - Robotics

- Civil
  - Transportation
  - Buildings
  - Water Resources
  - Geotech
  - Environmental

- Computer
  - Software
  - Website
  - ERP
  - Mobile Apps
  - IoT

- Electrical
  - Electrification
  - Power Supply
  - Electric Machines
  - Power
  - Generation
  - Transmission
  - Distribution

- EC
  - Hardware
  - Communication
  - Automation
  - Software

- Mechanical
  - Machines
  - Production
  - Physical
  - Conversion

- IT
  - Installation
  - Development
  - Implementation of
  - Computer Systems
  - Application
Civil Engineering

- Civil engineering is the oldest branch in the history of human kind. It is related to civilization.
- It deals with the planning, design, construction of buildings, highways, bridges, dams, airports, etc.
- Civil engineer gets job in the public sector from municipal corporation to central governments, and in the private sector from individual builders to international companies.
- Specialization can be done in many areas like Structural, Construction, Water Resources, Architectural, Environmental, Geotech, Transportation, etc.

**Who should select Civil Engineering?**

- Students who are rough & tough by nature, can work in any season and ready for physical work on site.
- If a student is looking for government job or planning to start construction business.
- Good command on mathematics and drawing are expected.
Electrical & Electronic Engineering

- Electrical engineering surrounds us everywhere in modern society.
- The electrical engineer supplies us with the ability to harness electricity which has transformed our lives. It gives us light, heat, entertainment, communication systems and comfort.
- Electrical engineers create and design products and information systems using scientific principles combined with natural curiosity, problem-solving and innovation.
- It covers a wide range of careers including Power Generation and Transmission, Control Systems, Communications, Robotics, Electronics and Nanotechnology, just to name a few.
- Electrical engineers work on anything from small pocket devices to large aircraft electrical systems.

**Who Should Select Electrical Engineering?**

- If you are interested in electrical systems, electronics devices and related technologies.
- If you are inspired and motivated by technology and by the physical sciences or if you have a curious and analytical mind that enjoys the study and application of science, technology and mathematics.
- If you are willing to embark in the serious study and practice of those subjects.
Mechanical Engineering

- Mechanical engineering is one of the largest, broadest and oldest engineering discipline, that's why it is also known as Mother of all engineering disciplines.

- Mechanical engineers design and manufacture an enormous range of products from washing machines, copying machine to complex items like turbines, racing cars, planes and even faster rockets and yes, they even create robots. In a word, mechanical engineers creates - almost anything.

- Almost every industry you can think, depends on mechanical engineering to thrive. That's why there is such a huge global demand for mechanical engineers.

- Who should select Mechanical Engineering?
  - If you enjoy creating practical solutions to problems and like turning your ideas into reality,
  - The student who is inventive, good interest in basic math and science, can work according to environment i.e. team work, multitasks at a time, love to work with man and machines, etc.
  - Those who have family business or planning to start should give preference to mechanical engineering.
Electronics & Communication Engineering

- ECE broadly deals with systems related to acquiring, communicating, manipulating and analyzing information.
- ECE covers wide range of systems from sensor to satellites, calculators to computers, robots to radars, mobile phones to medical electronics, automation to electronics in automobiles, etc.
- ECE has played a major role in technology revolution that we see today and has highly influenced all domains of engineering and our day-to-day life.
- Study in ECE covers both hardware (system/circuit) and software (programming) skills hence varieties of job profiles are available that covers office job as well as field job.
- In addition to core ECE, job opportunities are also available in fields related to IT, ICT, Instrumentation, Bio-medical, etc.

Who should select Electronics & Communication Engineering?
- Students who are interested to work with latest technology and MNC kind of work environment.
- Students who do not mind migrating to metro cities for higher salary and fast career growth.
- Students who are interested to go abroad for higher studies or job.
Computer Science Engineering/Information Technology

- Computer engineering has started digital revolution that has changed our lives completely.
- It is the scientific and practical approach to computation and its applications.
- It has spread its roots in all areas of our life, business, economic system, etc.
- It is the only branch where an engineer can become crorepati by doing only job.
- Computer engineer, also known as a software engineer, is responsible for designing, developing, testing and evaluating the software that makes our computers work.
- As on date, more number of computer engineers are working in Hyderabad than any other branch.

**Who should select Computer Engineering?**

- If student is looking for job immediately after graduation then computer is right choice.
- If student is planning to start white collar business without investment then computer is right choice.
- If student is not willing to do field job and prefer office job then computer is right choice.
- Computer engineering is the right choice for those who born and brought up in cities.
- Student should have logical, reasoning & puzzle solving skills and able to work 10 hours continuously.
Aeronautical Engineering

- Aeronautical engineering deals with science involved in building aircrafts and spacecrafts.
- It is a specialization of Mechanical Engineering which deals only with flying vehicles.
- This branch deals with thermodynamic, fluid dynamics, propulsion, control engineering and material engineering of working with flying vehicles.
- **Who should select Computer Engineering?**
  - Strong sense of responsibility and Ability to work speedily with accuracy - since aircrafts have to be serviced in a short time
  - Ability to work as members of a team
  - Students who are interested to work in Airlines, Air Force, Corporate Research Companies, Defence Ministry, Helicopter Companies, Aviation Companies, NASA and many others.
Specialized Branch

- Designed for specific type of work based on demand
- Limited scope for jobs, job areas, location & business scope
Automobile Engineering

Mechanical Engineer → Automobile Engineer

Demand is very limited.
Chemical Engineering

- *Tough competition* from B.Sc. (Chemistry)
- Job location in metro cities
- Should be very careful in *work environment*
Few More Specialized Branches

▶ **Instrumentation and Control (IC)**
  - Works for industries with automated processes, such as biomedical or manufacturing plants

▶ **Mechatronics**
  - Difficult branch compared to other branches
  - Combination of Mechanical & Electronics

▶ **Production, Industrial**
  - Areas of Mechanical engineering

If you have *enough information* about the branch and ready to *relocate anywhere in the country* then only prefer specialized branch.
Other Branches

- Fancy or Attractive Names
- Available in one or two colleges only

<table>
<thead>
<tr>
<th>Branch</th>
<th>Points to Think</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio-Technology</td>
<td>Better to do Chemical Engineering and then Ph.D.</td>
</tr>
<tr>
<td>Environmental</td>
<td>Part of Civil Engineering, better to go for Civil Engg.</td>
</tr>
<tr>
<td>Nano Technology</td>
<td>Only Aurora college offering in Telangana state</td>
</tr>
</tbody>
</table>

*Bio-Medical, Mining, Metallurgical, Plastic, Rubber, Food Processing, Marine, etc.*

⚠️ Before selecting such branches, Do visit college & meet students.

⚠️ If you have family business related to this branch then only it is advisable to choose it.
Branch Selection Matrix
Tick your preferences & consider the branch with higher ticks

<table>
<thead>
<tr>
<th>Branch Parameter</th>
<th>Aero</th>
<th>Mech.</th>
<th>CSE/IT</th>
<th>EEE</th>
<th>ECE</th>
<th>Civil</th>
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<tbody>
<tr>
<td>Job Type</td>
<td>Field Job (60%) Office Job (40%)</td>
<td>Field Job (80%) Office Job (20%)</td>
<td>Office Job</td>
<td>Field Job (70%) Office Job (30%)</td>
<td>Field Job (40%) Office Job (60%)</td>
<td>Field Job</td>
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<tr>
<td>Government Jobs</td>
<td>Medium Scope</td>
<td>Low Scope</td>
<td>Very Low Scope</td>
<td>Huge Scope</td>
<td>Low Scope</td>
<td>Huge Scope</td>
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<tr>
<td>Private Sector Jobs</td>
<td>Huge</td>
<td>Huge</td>
<td>Highest</td>
<td>Medium</td>
<td>High</td>
<td>Limited</td>
</tr>
<tr>
<td>Campus Placement</td>
<td>High</td>
<td>High</td>
<td>Highest</td>
<td>Low to Medium</td>
<td>Huge</td>
<td>Low</td>
</tr>
<tr>
<td>Salary Growth</td>
<td>Medium</td>
<td>Medium</td>
<td>Very Fast</td>
<td>Medium</td>
<td>Fast</td>
<td>Medium</td>
</tr>
<tr>
<td>Business with Low Capital</td>
<td>Moderate Scope</td>
<td>Moderate Scope</td>
<td>Huge Scope</td>
<td>Moderate Scope</td>
<td>Moderate Scope</td>
<td>Huge Scope</td>
</tr>
<tr>
<td>Job Locations</td>
<td>Local to Global</td>
<td>Local to Global</td>
<td>Local to Global</td>
<td>Local to Metro</td>
<td>Metro to Global</td>
<td>Local to Metro</td>
</tr>
</tbody>
</table>
How to Select College???
If you *like a college*, then pursue *any branch available* in that college

If your *focus is on branch*, then pursue in *any college* where it is available
Most Important Parameters to choose college

College profile

Affordability ₹
College Selection Criteria
Autonomous / Non-Autonomous (Affiliated) Institutes

- **Drawbacks of the university affiliating system:**
  - As large numbers of colleges are affiliated to the Universities it becomes very difficult to manage the quality standards.
  - Curriculum is common with many other affiliated institutes and is regulated by a University throughout entire state and exams are conducted by the affiliated University.
  - The colleges have a subsidiary character with no function as catalyst in education for social change and progress.
  - Teachers have hardly any role in generating knowledge and absolutely no recognition in research undertakings.
  - Students have limited options with hardly any provision for individual’s aptitudes and aspirations.
  - Changes in curriculum and syllabi are very slow in the affiliating system due to difficulty of bringing together large number of people involved in the process.
Autonomous / Non-Autonomous (Affiliated) Institutes

**Salient Features In Autonomous Institutes**

- Academic independence gives freedom to revise the syllabus with time and follow a schedule which is more suitable for the set curriculum.
- Exams are conducted by the institute itself and are in accordance with what is being taught during the session.
- Relative grading system where the highest mark obtained by a student decides the marks the others get. So in case of a difficult paper, a low percentage score would not necessarily mean a low GPA.
- Students can pick subjects of their choice rather than being forced to rote learning what they do not wish to.
- Degrees finally awarded by the affiliated University which generally carries a lot of reputation.
- Have higher status compared to their counter-parts, obviously indicates a superiority and prestige.
- Being equipped with the right kind of infrastructure attracts higher degree of campus placements.
2. Faculty

- Faculties are the soul, heart & brain of the college
  - Number of Faculties w.r.t. Intake (Faculty – Student Ratio)
  - Stability of Faculties
  - **Experience** of faculties in **field** and **academics**
  - Industrial Exposure & Consultancy
3. Campus Environment

- Disciplined and Academic
- Student Monitoring System
- Daily Reporting to Parents
4. Infrastructure

Building is not main infrastructure of the college,
- Equipment in Laboratories
- Machine Tools in Workshop
- Books & Resources in Library
- Class Rooms
- Student Store & Cafeteria

Easy access to resources is real infrastructure !!!
5. Result

- University Results is direct reflection of
  - Faculty Quality
  - Teaching Standard
  - Academic Environment

- Compare result with reference based on how many joined and completed their degree with in stipulated period
6. College Rankings

NIRF Ranking given by Government of India for Engineering Colleges in Telangana State
<table>
<thead>
<tr>
<th>S.No</th>
<th>College Name</th>
<th>City</th>
<th>India Rank</th>
<th>Entrance test</th>
<th>Govt./Private</th>
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<tr>
<td>1</td>
<td>Indian Institute of Technology Hyderabad</td>
<td>Hyderabad</td>
<td>10</td>
<td>JEE Advanced</td>
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<tr>
<td>2</td>
<td>National Institute of Technology Warangal</td>
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<td>34</td>
<td>JEE Mains</td>
<td>Govt.</td>
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<td>International Institute of Information Technology</td>
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<td>75</td>
<td>JEE Mains</td>
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<td>108</td>
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<td>Private</td>
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</table>
6. College Rankings

Ranking given by Popular Agencies for Engineering Colleges
<table>
<thead>
<tr>
<th>S.No</th>
<th>College Name</th>
<th>Place</th>
<th>Rating</th>
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<td>3.5</td>
</tr>
</tbody>
</table>
7. Placement

Placement is the result of previously listed parameters.

Always remember, Placement is a side product of Quality Education.
7. Placement Type

**Education based**
- Minimum 60% in SSC, 10+2, B.Tech. (No Backlog), Good English & Communication Skill
- Starting 30,000+

**Skill based**
- Only Skill matters
- 1st Class in B.E. is enough
- Starting 10,000+
7. Placement

- Now a day, Companies arrange common placement
- They choose any one college as campus drive venue
- Students from good colleges are invited for the drive
- Students of good colleges get equal opportunities
- Most important thing is that Placement is branch specific.
  - Higher Placement: Computer, EC, Mechanical
  - Lower Placement: Civil, Electrical
8. Intake

- Quality of Education degrades in overcrowded campus
- Quality and Quantity never goes together, specially in education
- Intake has direct effect on campus environment, teaching, result & placement
9. College Timing

- College timing should be optimized not stretched
- It should give sufficient time for
  - career development
  - other activity of interest
## Affordability

<table>
<thead>
<tr>
<th>College</th>
<th>Details</th>
</tr>
</thead>
</table>
| **CBIT**     | Started in 1979  
                Fee details: **Rs. 1,13,500/-**  
                NAAC, NBA, UGC Autonomous and NIRF ranked college |
| **Vasavi**   | Started in 1981  
                Branches: CSE, IT, ECE, EEE, Civil and Mech.  
                Fee details: **Rs. 86,000/-**  
                NAAC, NBA, UGC Autonomous and NIRF ranked college |
| **VNR VJIT** | Started in 1995  
                Branches: CSE, IT, ECE, EEE, EIE, Automobile Engg., Civil and Mech.  
                Fee details: **Rs. 98,500/-**  
                NAAC, NBA, UGC Autonomous and NIRF ranked college |
| **Sreenidhi**| Started in 1997  
                Branches: CSE, IT, ECE, EEE, EIE, Automobile Engg., Civil and Mech.  
                Fee details: **Rs. 98,500/-**  
                NAAC, NBA, UGC Autonomous and NIRF ranked college |
10. Affordability

**MLRIT**
- Started in 2005
- Branches: Aero, CSE, IT, ECE, and Mech.
- Fee details: **Rs. 70,000/-**
- NAAC, NBA, UGC Autonomous and NIRF ranked college

**Vardhaman**
- Started in 1999
- Branches: Aero, CSE, IT, ECE, EEE, Civil and Mech.
- Fee details: **Rs. 1,05,000/-**
- NAAC, NBA, UGC Autonomous and NIRF ranked college

**MGIT**
- Started in 1997
- Branches: MME, CSE, IT, ECE, EEE, Civil and Mech.
- Fee details: **Rs. 1,00,000/-**
- NAAC, NBA, UGC Autonomous and NIRF ranked college

**Gokaraju**
- Started in 1997
- Branches: CSE, IT, ECE, EEE, Civil and Mech.
- Fee details: **Rs. 95,000/-**
- NAAC, NBA, UGC Autonomous and NIRF ranked college
10. Affordability

IARE

- Started in 2000
- Branches: Aero, CSE, IT, ECE, EEE, Civil and Mech.
- Fee details: Rs. 67,000/-
- NAAC, NBA, UGC Autonomous and NIRF ranked college

Quality does not reflect on High Tuition FEES … It reflects on Quality of Teaching

IARE have been achieving International Quality Education with dedicated faculty, passionate students and moderate tuition fees.

Experience more at IARE !!!
How to collect information?

**Information Type**

- **Faculties, Fee, Placement, Transportation, College Timing**
  - From: college website

- **Results of University Exam**
  - From: University and college website

- **Infrastructure, Campus environment, Quality of faculties & teaching, etc.**
  - From: Current Students of the College
To Do for College Selection

1. **Sort list** 3 to 4 colleges that match your criteria
2. **Personally visit** those colleges
3. **Meet** professors, students. **Observe** environment

Currently studying students are real testimony
Respect what you get

Don’t regret for others
Information is your best friend

Ignorance is your worst enemy
THANK YOU..!

GOOD LUCK
Dr. G Ramu, 
Professor in CSE, 
Institute of Aeronautical Engineering 
Dundigal, Hyderabad – 500 043 
Telangana, India.

08418 - 257181, 257202 
09703618753 & 09703962233

9:00 AM to 6:00 PM
Engineering Branch and College Selection Guide - 2017

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