



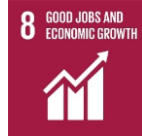
# NATIONAL UNIVERSITY OF SCIENCES & TECHNOLOGY (NUST), PAKISTAN

Islamabad | Rawalpindi | Karachi | Risalpur | Quetta





**SCEE**  
SCHOOL OF CIVIL &  
ENVIRONMENTAL  
ENGINEERING



# School of Civil & Environmental Engineering (Farewell Address – Entry Batches 2022) by Principal & Dean SCEE







# SEQUENCE

- **NUST – Vision & Core Values**
- **Program Educational Objectives**
- **Kickstarting Professional Career**
  - **Challenges & Opportunities**
  - **Key Factors of Career Planning**
  - **Building Strong CV**
  - **Networking & Job Interview Tips**
  - **Upskilling & Internships**
- **A Few Words of Advice**



## NUST VISION

**NUST** aspires to be a comprehensive University providing a higher education experience grounded in **thought leadership, co-creation of knowledge, and sustainability.**

PURSUIT OF  
EXCELLENCE

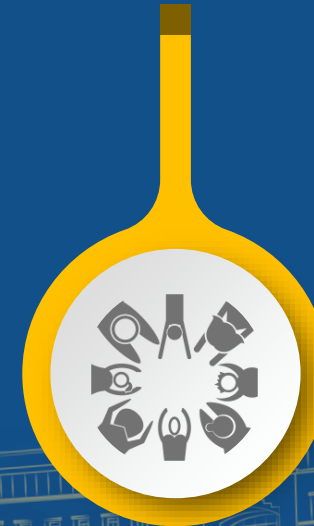


INTEGRITY



INSPIRING  
PARTNERSHIPS

EQUITY, DIVERSITY &  
INCLUSION



SUSTAINABILITY



# PROGRAM EDUCATIONAL OBJECTIVES

## CIVIL ENGG

- Graduates will be highly competent & employable demonstrating sound knowledge & skills.
- Graduates will be leaders demonstrating effective teamwork & interpersonal skills.
- Graduates, will discharge their professional & societal obligations displaying high moral & ethical standards.
- Graduates will pursue lifelong learning through postgraduate education & continued development of technical & managerial skills.

## ENVIRONMENTAL ENGG

- Demonstrate Engineering knowledge & digital skills to develop sustainable solutions for addressing environmental concerns.
- Progress in engineering practices & their profession while exhibiting continual improvement in interpersonal & collaborative skills.
- Execute their professional & societal obligations displaying high moral & ethical standards.
- Remain committed towards learning through PG education & continued dev of managerial, entrepreneurial, & leadership skills.

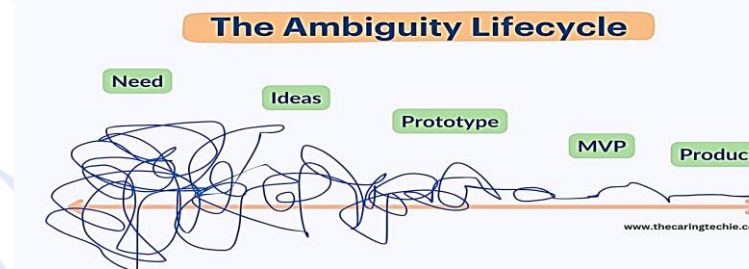
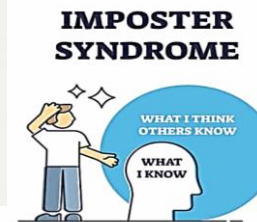
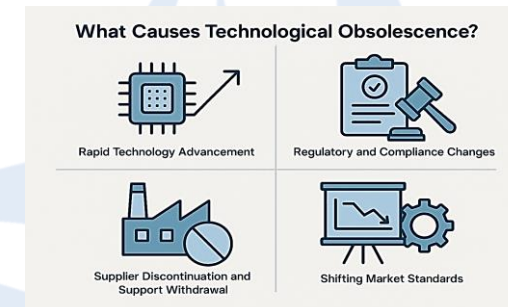
## GEOINFORMATICS ENGG

- Graduates will be highly competent & employable, demonstrating Geoinformatics knowledge & skills.
- Graduates will demonstrate effective teamwork & interpersonal skills.
- Graduates will discharge their professional & societal obligations, displaying high moral & ethical standards.
- Graduates will pursue lifelong learning through postgraduate education & continued development of technical & managerial skills.

# KICKSTARTING PROFESSIONAL CAREER

## Challenges

- Constantly **Evolving Job Market**
- Student **Turnout Exceeding Vacancies**
- **Rapid Obsolescence**
- **AI & Automation Integration**
- **Cross-Disciplinary** Convergence
- **Imposter Syndrome** hurdle
- Transitioning from **Theory to Ambiguity**
- Burnout from **Relentless delivery cycles**
- **Management vs Technical Track** dilemma





# KICKSTARTING PROFESSIONAL CAREER

## Measures/ Opportunities to Meet Challenges

- **Blend of Preparation, Persistence, Malleability/ Flexibility**
- **Empowering with Strategies** for **Transition from Students to Professionals**
- **Tech Agility:** Master the fundamentals to adapt easily to new tools
- **Cross-Disciplinary Curiosity:** Get knowledge of different fields to inspire unique solutions
- **Perfect vs Done:** Avoid over-engineering; a working solution today beats perfection tomorrow
- **Economic Constraints:** Real-world engineering requires balancing technical excellence with budget realities
- **Root-Cause Analysis:** Never patch a symptom when you can fix the core problem

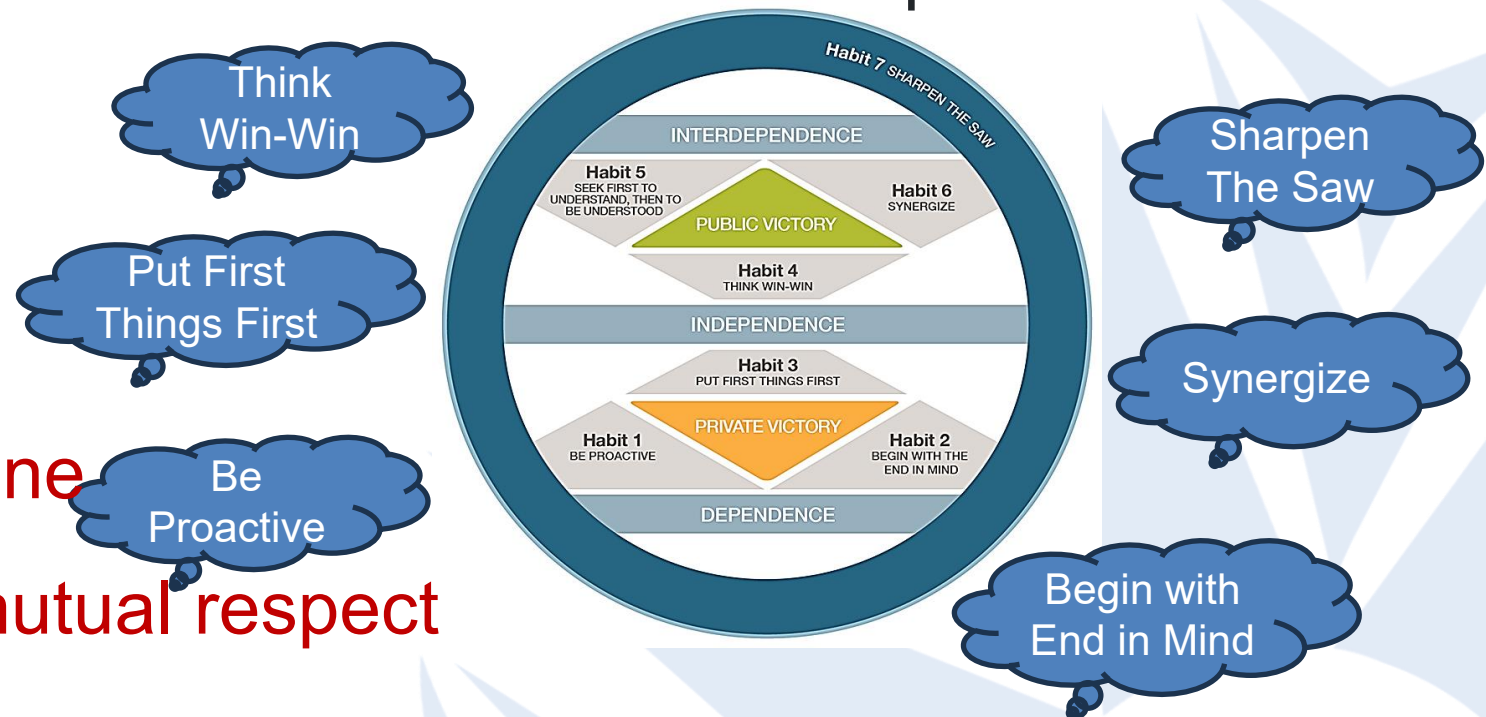
# 7 HABITS OF EFFECTIVE PROFESSIONAL

- Maintain **professional appearance** inside and outside workplace
- Be **thoroughly prepared** and **create interest** in the professional pursuits

- **Prioritize** the assignments
- **Contribute** in others work

- Venture **beyond comfort zone**
- Develop a relationship of **mutual respect**

- *“Seek first to understand, then be understood” – Stephen R. Covey*



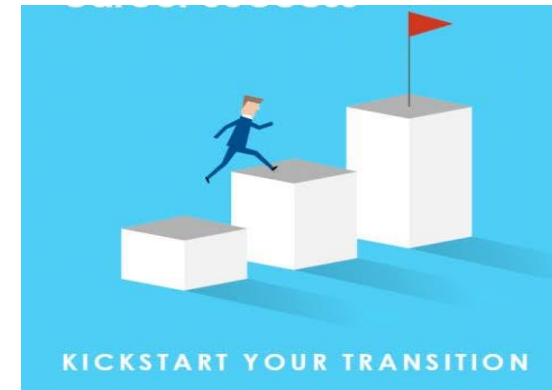




# KICKSTARTING PROFESSIONAL CAREER

## Key Factors

- Career Planning
- Building a Strong CV
- Networking
- Job Interview Tips
- Upskilling & Internships



# KICKSTARTING PROFESSIONAL CAREER

## Career Planning

- Define your **Career Goals**
- Identify your **Strengths & Selling Points**
- Utilize **Resources** to Gain Valuable Insights
  - Career Counsellors
  - Online Platforms e.g.  **CareerFitter**
    - Career Fitter
    - Skill Scan
  - Mentorship Programs
    - LinkedIn
    - Pakistan Mentorship Program



Are you passionate about something?

What Drives Your Motivation & Subdues Procrastination?

Do you excel in a Niche other than the subject of your degree?

# KICKSTARTING PROFESSIONAL CAREER

## Building a Strong CV

- A well-crafted CV is ticket to the Interview

### Key Points

- Education
- Skills
- Summary
- Experience

### Don'ts of a CV

- Including Irrelevant Information e.g. Casts, Languages
- Hobbies like Internet Exploring etc.

#### Education

Apart from your degree and institution, highlight **relevant, coursework, certificates, awards,** etc.

#### Skills

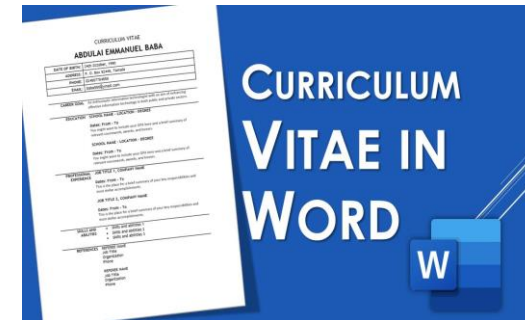
Mention technical and soft skills relevant to the job you are applying to. and **MOST IMPORTANTLY,** Tailor Each CV for the job you are applying to.

#### Summary

Write a brief statement summarizing your **skills and career aspirations.** **AVOID** the extensive use of word "**passionate**" because every CV has it in it.

#### Experience

List **internships, part-time jobs, or projects.** Focus on **achievements** rather than **responsibilities.** How did you do, what you did, highlighting your perceptive and original solutions to problems you faced



# KICKSTARTING PROFESSIONAL CAREER

## Networking

- Importance of Networking & References in Career Success
- Building Meaningful Connections

## Approaches

- Internships & Job Fairs
- Alumni Networks
- 



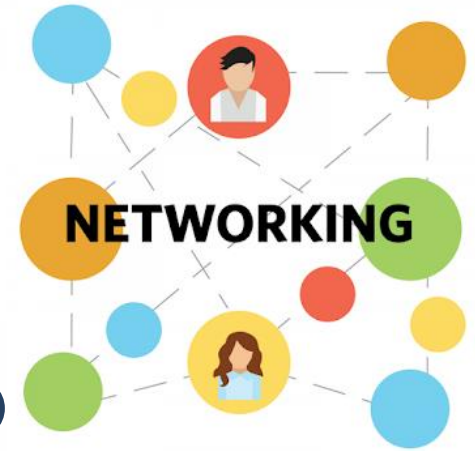
Leverage NUST alumni networks to connect with graduates working in your desired industry.

Attend alumni events and engage with them on LinkedIn.

### 

Optimize your profile with a professional photo, a concise headline, and detailed achievements.

Share posts about your learning journey and activities that align with your career interests and engage with industry content.



Research shows that 80% of professionals believe follow-up messages play a critical role in building strong connections, as they reinforce interest & professionalism (Forbes, 2022).



# KICKSTARTING PROFESSIONAL CAREER

## Job Interview Tips

- **Research the Company**
  - Company Mission, Values & Recent Achievements
  - Demonstrates your Interest & Preparation
- **Showcase Soft Skills/ Micro-Credentials**
  - Employers value Communication, Teamwork, & Adaptability
  - Share Examples relevant to Job that Highlight these Traits
- **Confidence & Professionalism** are the Key
- **Mock Interviews** to refine responses & Body Language



## Post Interview Etiquettes

- Send a thankyou email, irrespective of the outcome

# KICKSTARTING PROFESSIONAL CAREER

## Upskilling & Internships

- Continuous Learning in today's competitive market
- Invest in Online Courses/ Certifications
- Use Platforms like Coursera, Udemy, NUST ConnectEd & Digiskills etc.
- Internships provide hands-on experience & glimpse into your chosen industry
  - Excellent way to build network & Enhance Skills
  - Showcase your abilities to Potential Employers
  - Interns.pk, LinkedIn Jobs, Business Incubation Centers like NSTP etc.



## PM's Digital Youth Hub Portal

- Pakistan's largest platform for youth, connects young people to jobs, education, entrepreneurship, and more.
- Initiative empowers youth to explore, grow, and lead their future



# PLATFORMS TO LOOK FOR OPPORTUNITIES

## Graduate Engineer Training (GET) Program

- An initiative by PEC to enhance employability of Fresh Engineers through Paid GET Placement Program
- Currently the placement of 2025 Graduates is in process
- In next phase, Graduates of 2026 batch will be accommodated

## Scholarship Network

- A Facebook Community of 1 Million Pakistani and Int'l Graduates
- Helps Pakistani Students by Sharing Scholarship opportunities
- Guidance from Past and Present Scholars regarding Scholarship Opportunities

## Opportunities for SCEE Engineers

- WhatsApp group of SCEE Graduates/ Alumni where job opportunities are shared
- Discussion on different technical issues, sharing of different Market Related information, BoQs, Codes, Tenders and other technical documents thus helping each other



# PLATFORMS TO LOOK FOR OPPORTUNITIES



Opportunities for Civil Engineers  
of SCEE-NICE

WhatsApp group



**Civil Engineers**



SCEE (IESE) Alumni

WhatsApp group



**Environmental Engineers**



IGIS-Alumni Network

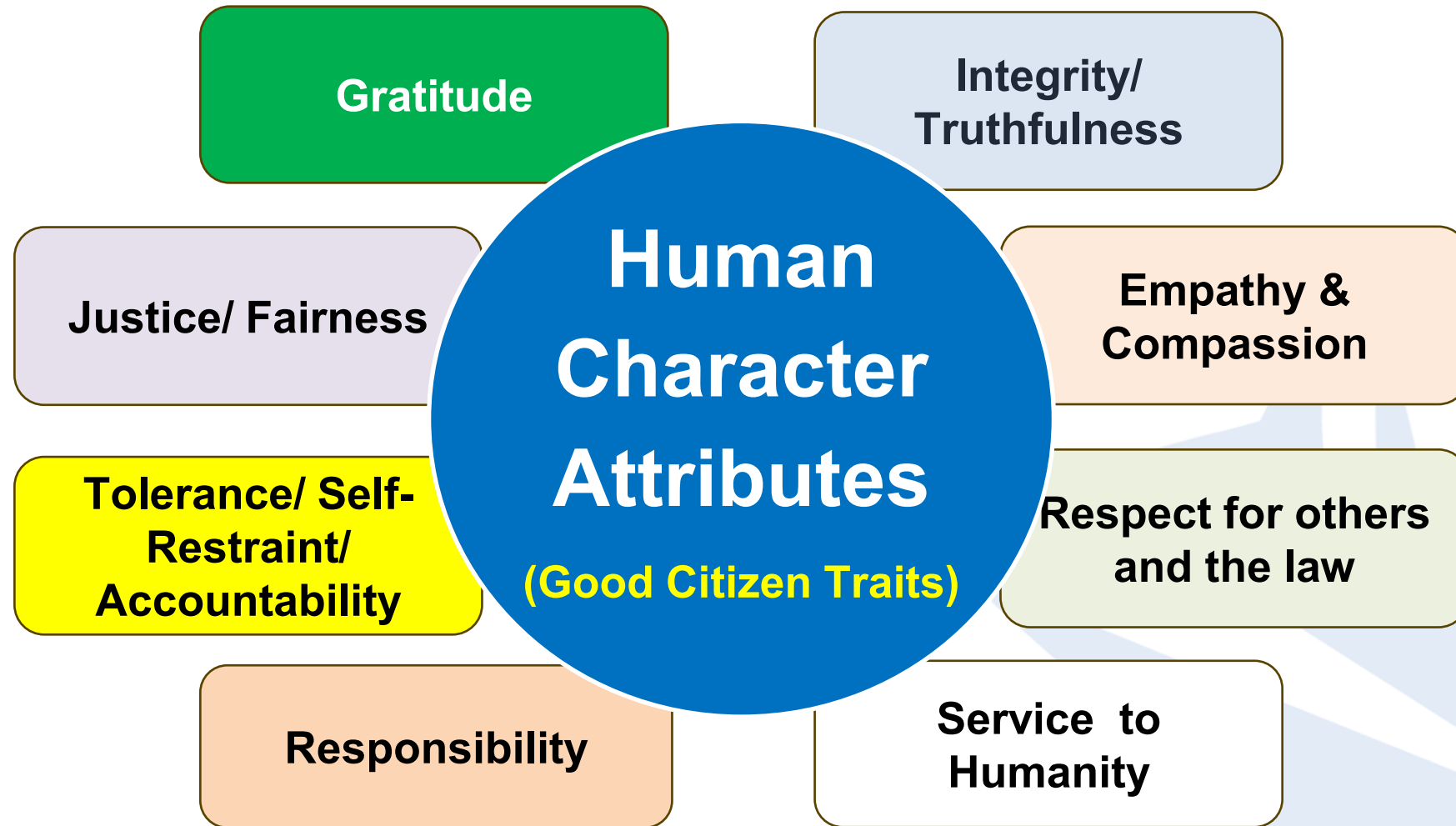
WhatsApp group



**Geoinformatics Engineers**



# CHARACTER ATTRIBUTES FOR SUCCESS





# TOP PROFESSIONAL SKILLS FOR SUCCESS

- **Problem-solving**
- **Communication skills**
- **Flexibility and adaptability**
- **Leadership**
- **Teamwork**
- **Conflict resolution**
- **Social and emotional intelligence**
- **Time management**

**“93 percent** of employers say that a demonstrated capacity to think critically, communicate clearly, and solve complex problems is more important than a candidate’s undergraduate major. More than 75 percent want higher education to place more emphasis on critical thinking, complex problem solving, written and oral communication, and applied knowledge.”





# FEW WORDS OF ADVICE

- Never forget that your greatest allies are **Versatility** and **Resilience**.
- Never discount your **Abilities & Attributes**.
- Be **Proactive** and **Receptive (Accept Learning)**.
- Although there may be obstacles along the way, you can achieve your goals if you are **Determined** and **Utilize the Tools Available**.
- Serve your parents and families.
- Be a part of Great Story – **Story of Building Pakistan !**
- **GODSPEED WITH YOUR EXCEPTIONAL ENDEAVORS.**

***(MAY ALLAH SWT'S SPECIAL BLESSINGS BE UPON YOU & YOUR FAMILIES)***

**THANK YOU**

