

CS-B3 (21-25) / Sangeet Agrawal / 21070122140

Design Thinking - SWOT Analysis

1) SIT:

→ Strengths:-

- i) Good infrastructure with modern facilities like labs, libraries, etc.
- ii) Diverse student body bringing different perspectives and ideas to the learning environment.
- iii) Strong emphasis on practical learning through projects, internships, and workshops.
- iv) Active student clubs and societies fostering extracurricular development.

→ Weakness:-

- i) Limited industry exposure and connections for internships and placements.
- ii) Extensive use of paper that could be digitalized to match with industry.
- iii) Lack of adequate funding for research and development activities.
- iv) Limited resources for student support services like counselling and career guidance.

→ Opportunities :-

- i) Collaborations with industry partners for internships, guest lectures and research projects.
- ii) Expansion of course offerings to include emerging technologies.
- iii) Increased focus on innovation side of things.
- iv) Strengthening alumni networks for mentorship and career opportunities

→ Challenges/Threats:

- i) Competition from other colleges and universities offering similar programs.
- ii) Rapid advancements in technology requiring continuous updates to curriculum and facilities.
- iii) Regulatory changes impacting funding.
- iv) Economic fluctuations affecting funding and tuition fees.

2) Computer Science Department:

→ Strengths :-

- i) Good computing infrastructure and laboratories.
- ii) Strong industry connections providing opportunities for internships and placements.
- iii) Engaging curriculum both theoretical knowledge and practical skills.
- iv) Research initiatives leading to publications and collaborations with other organizations.

→ Weakness :-

- i) Limited resources for supporting student-led projects and research.
- ii) Some outdated course materials and teaching methods.
- iii) Heavy focus on traditional areas of computer science, potentially neglecting emerging technologies.
- iv) Extensive use of paper that could be digitalized.

→ Opportunities:

- i) Collaboration with industry partners.
- ii) Introduction of new courses or specializations in emerging fields.
- iii) Recruiting diverse faculty members and students to enrich the department's perspective.
- iv) Offering online courses or certifications to reach a wider audience beyond the campus.

→ Challenges / Threats:

- i) Rapidly evolving technology making it challenging to keep curriculum up-to-date.
- ii) Competition from other institutions offering similar computer science programs.
- iii) Funding constraints impacting research activities and infrastructure development.
- iv) Difficulty in attracting and retaining top talent due to market demand and competition.

3) Myself:

→ Strengths:-

- i) Effective communication skills both written and verbal.
- ii) Ability to work well in teams, demonstrated through group projects and collaborations.
- iii) Adaptability and willingness to learn new technologies and concepts.
- iv) Leadership potential shown through positions held in student organizations or community.

→ Weakness:-

- i) Limited ~~profess~~ professional experience or industry exposure.
- ii) Time management skills that could be improved to balance personal and work life.
- iii) Lack of specific technical skills or certifications desired by employers.
- iv) Occasional struggles with public speaking or presentations.

→ Opportunities:-

- i) Internships, or part-time jobs to gain practical experience in my field of study.
- ii) Networking opportunities with professionals in my field through events, conferences, and alumni.
- iii) Pursuing further education or certifications to specialize in a particular ~~area~~ area of interest.
- iv) Volunteering or participating in projects that align with my career goals to gain hands-on experience.

→ Challenges / Threats:-

- i) Competition in the job market from candidates with more experience or specialized skills.
- ii) Economic factors affecting job availability and salary expectations.
- iii) Balancing academic commitments with extracurricular activities and personal responsibilities.
- iv) Self-doubt - impacting confidence and performance.