# A Study on the Relationship Between Impostorism and Perfectionism in Engineering Students

Dissertation submitted in partial fulfillment of the requirements for the award of

Bachelor of Science in Psychology

By

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**MARCH 2023** 

**CERTIFICATE** 

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between Impostorism and Perfectionism in Engineering Students", is a bonafide record

submitted by, Zainab Abdul Raoof (SB20PSY049), of St. Teresa's College, Ernakulam

under the supervision and guidance of Ms. Anjitha Venugopal and that it has not been

submitted to any other university or institution for the award of any degree or diploma,

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**DECLARATION** 

I, Zainab Abdul Raoof do hereby declare that the work represented in the dissertation

embodies the results of the original research work done by us in St. Teresa's College,

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submitted by us to any other university or institution for the award of any degree,

diploma, fellowship, title or recognition before.

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#### Abstract

Impostor syndrome is being increasingly highlighted in popular media and non-expert literature as a significant mental health condition that can negatively impact an individual's professional performance and contribute to feelings of burnout. Impostorism refers to perceptions of fraudulence that can be experienced when individuals doubt their ability to fulfill a particular role or struggle to feel they belong in a particular group (Chrisman et al., 1995; Clance & Imes, 1978; Vergauwe et al., 2015). Perfectionists often set unrealistic standards for themselves and engage in self-criticism and self-blame when they fall short of those standards. This can lead to feelings of inadequacy and a fear of failure that can interfere with personal and professional development (Stoeber, J., & Otto, K. 2006). The aim of this research is to investigate the relationship between perfectionism and impostorism in first-year engineering students. The study involved 301 first-year engineering students aged 18-25, who were admitted on a merit basis from different colleges in Kerala. Purposive sampling was used, and data were collected through Google Forms. A correlational research design was utilized, with Pearson's correlation analysis used to analyze the data. The Multidimensional Perfectionism Scale (MPS) and Clance Impostor phenomenon Scale were the tools employed. Pearson's correlation analysis revealed a significant link between perfectionism and impostorism in first-year engineering students, with a positive correlation between self-oriented perfectionism and impostorism, and no correlation between other-oriented perfectionism and impostorism. There was also a positive correlation between impostorism and socially prescribed perfectionism.

Keywords: Impostorism; Perfectionism; Self-Oriented Perfectionism; Other-Oriented Perfectionism; Socially Prescribed Perfectionism

#### Chapter 1

#### Introduction

Entering university is often associated with new surroundings and challenges, which can cause distress and might result in poor mental health. Students often doubt their abilities and accomplishments. This can lead to decreased motivation and self-esteem as well as an increased risk of stress and burnout. Studying at university can sometimes incite feelings of inadequacy in students. Combine that with remote learning and the stresses of lockdown, it's no surprise that some students may suffer from a constant sense of self-doubt. In recent times, many faculty and students report experiencing feelings of self-doubt about their accomplishments and abilities, at some point in their academic careers. This feeling can prevent people from fully participating in the teaching and learning experience and make them feel like they do not belong in a scholarly environment. As highlighted in the review by Sharp and Theiler (2018), psychological distress is a huge issue among university students worldwide and is more prevalent in university students than in the general population. A phenomenon that was shown to be linked to low self-esteem, higher stress levels, anxiety, and depression in university students is the impostor phenomenon. Impostorism is a psychological phenomenon in which individuals doubt their accomplishments and have a persistent fear of being exposed as a "fraud". This phenomenon is particularly relevant for students, as it can significantly impact their academic performance and mental health.

The impostor phenomenon describes a psychological experience of intellectual and professional fraudulence (Clance and Imes, 1978; Matthews and Clance, 1985).

Individuals experiencing Impostorism believe others have inflated perceptions of their abilities and fear being evaluated. These individuals also discount praise, are highly

self-critical, and attribute their achievements to external factors such as luck, hard work, or interpersonal assets, rather than internal qualities such as ability, intelligence, or skills (Harvey, 1981; Matthews and Clance, 1985). The phrase impostor phenomenon first appeared in the late 1970s following clinical observations of female clients (Clance and Imes, 1978). However, Harvey (1981) asserted a failure to internalize success and viewing oneself as an impostor was not limited to highly successful people. Rather, Impostorism is experienced when individuals are specifically faced with achievement tasks regardless of their success status or gender (Harvey and Katz, 1985). Furthermore, anticipation and exposure to achievement tasks are associated with negative emotions and self-beliefs such as anxiety, depression, and low self-esteem among individuals experiencing Impostorism (Cozzarelli and Major, 1990; Chrisman et al., 1995). This feeling of inadequacy describes the Big-Fish-Little- Pond Effect; this occurs when the comparison of one's own academic achievement with that of others impacts the development of academic self-beliefs (Marsh & Parker, 1984). Marsh and his colleagues have found that students who attend more competitive peer environments (such as highability schools or programs) tend to have lower academic self-concepts, at least upon entry to the school or program (Marsh et al., 2017). When students feel as though they are not as capable as their peers in a new environment, and also that they do not belong, they are experiencing what is known as the imposter phenomenon (see Rinn, 2020).

Perfectionism is a personality trait characterized by striving for flawlessness and setting excessively high-performance standards, accompanied by overly critical self-evaluations and concerns regarding others' evaluations. It is the tendency to demand of others or of oneself an extremely high or even flawless level of performance, in

excess of what is required by the situation. It is associated with depression, anxiety, eating disorders, and other mental health problems. Perfectionism can be defined as trying to adhere to high standards and continuously engaging in "overly critical self-evaluation" (Curran & Hill, 2017, p. 1). Although typically referred to as a unidimensional construct, many researchers agree that Perfectionism is a multidimensional construct that can be adaptive or maladaptive (Flett & Hewitt, 2014; Frost et al., 1990; Hamachek, 1978; Hewitt & Flett, 1991; Slaney et al., 2001; Stairs et al., 2012; Stoeber & Otto, 2006).Perfectionism has been recognized as a hindrance to the psychological well-being and achievement of academically talented students (Miller & Speirs Neumeister, 2017; Speirs Neumeister, 2018) and has been examined numerous times among high-ability graduate students (see Rinn & Plucker, 2019 for an overview).

Our research intends to explore the relationship between Perfectionism and Impostorism in engineering students. The academic environment is ever-changing with the advancement of technology and the increase in the number of scholars. With the changing dynamics in the personal and academic arena career aspirations and goals have become more complex and challenging to achieve. High career aspirations and goals provide ongoing pressure on students to demonstrate their ability and grit in the classroom, which can be an overwhelming burden for them. Impostor syndrome is a feeling of inadequacy and self-doubt despite external evidence of success.

Perfectionism is a desire for flawlessness and setting excessively high standards for oneself. Both can be common in engineering students, as the field often places a high value on technical proficiency and perfection. This can lead to feelings of inadequacy and self-doubt and can impact mental health and well-being. To address these issues,

students can focus on self-compassion and embracing a growth mindset, seeking help and support from peers and mentors, and setting achievable and realistic goals.

First-year engineering students, are expected to master complex and challenging material in a short period of time. There are several factors that may contribute to Impostorism among first-year engineering students. These include the high academic standards and expectations placed on students, the competitive nature of engineering programs, and the perception that failure is unacceptable. Perfectionism might get manifested in first-year engineering students as a relentless pursuit of excellence, often driven by a fear of failure and a desire to impress others. This might lead to high levels of stress and anxiety, and may contribute to burnout and academic disengagement. Therefore, the present study aimed to investigate the relationship between Perfectionism, and Impostorism in first year engineering students.

#### Rationale of the study

According to Klynveld Peat Marwick Goerdeler's Advancing the Future of Women in Business Summit Report, 75% of female executives surveyed reported experiencing Imposter Syndrome,53% of female professionals between the ages of 25-34 are currently experiencing Imposter Syndrome, 85% of women have not spoken to someone at work about their struggles, for fear of being seen as weak. Less than 5% of employers directly address Imposter Syndrome with their staff. 50% of Imposter Syndrome sufferers are working moms, but still, have a higher focus on work than personal life due to feelings of guilt. 169 Russian college students took part in this study to find the link between Perfectionism and psychological distress. The study was conducted by Kenneth T. Wang, Marina S. Sheveleva, Tatiana M. Permyakova in 2019.

Imposter syndrome's mediating and moderating effects on the relationship between Perfectionism and psychological distress were investigated. The findings showed that imposter syndrome served as a partial mediator between Perfectionism and anxiety while fully mediating the link between the two. In another study conducted to understand the prevalence of the impostor phenomenon and its association with selfesteem among medical interns in Goa, India, it has been found that a large number of medical interns suffer from high Impostor Phenomenon characteristics and low self-esteem. It is important for educators and mentors to be aware of impostor syndrome and to provide support and encouragement to students who may be experiencing it. With the advent of technology, students are constantly comparing themselves with peers and have a hard time incepting their own unique abilities and strengths. The COVID-19 pandemic has created additional stressors for students, such as uncertainty, isolation, and disruptions to their usual routines and support systems. These stressors might exacerbate impostor syndrome and Perfectionism, which can negatively impact students' mental health and academic performance. The study of these phenomena can help educators and mental health professionals to better understand and address the needs of students in the current context. This can include developing new interventions and strategies for managing impostor syndrome and Perfectionism, in a virtual or hybrid learning environment. The ongoing conversation on mental health and well-being among students has been brought to the forefront in recent years, making the study of these phenomena even more relevant. Understanding the prevalence and impact of impostor syndrome and Perfectionism in engineering students can help to create more supportive and inclusive educational environments for students.

#### **Chapter II**

#### **Review of literature**

First described by psychologists Suzanne Imes, Ph.D., and Pauline Rose Clance, Ph.D., in the 1970s, impostor phenomenon occurs among high achievers who are unable to internalize and accept their success. They often attribute their accomplishments to luck rather than to ability, and fear that others will eventually unmask them as a fraud. A study by Clance and Imes (1978) aimed to investigate the phenomenon of "impostor syndrome" among high-achieving women. The study found that many of the participants felt like frauds and were afraid of being found out, despite their successes. The study also found that this phenomenon was not limited to women and could also be found in men. This study is considered as one of the first to have coined the term "impostor syndrome". A high level the of Impostor Phenomenon limits the acceptance of success as an outcome of one's own ability and influences feelings self-doubt and anxiety. Clance (1985) suggested that the Impostor Phenomenon is marked by six potential characteristics: (1) The Impostor Cycle, (2) The need to be special or to be the very best, (3) Superman/Superwoman aspects; (4) Fear of failure, (5) Denial of competence and Discounting praise, and (6) Fear and guilt about success. However, the existence of these characteristics in Impostors is varied. Not every Impostor has all these characteristics but to consider someone as an Impostor, a minimum of two characteristics should be found. In order to determine the prevalence of the impostor phenomenon among graduate students, Harvey et al. (2011) conducted a study. According to the study's findings, the majority of participants said they had at least once encountered the impostor phenomenon while pursuing their graduate degrees. Additionally, the research revealed that the impostor phenomenon was linked to higher levels of anxiety and poorer levels of self-esteem.

Graduate programs are often highly competitive, and students may feel pressure to excel academically in order to secure a good job or advance in their field. They may feel that they are not as well-prepared as their peers, and that they do not belong in their program. Impostor phenomenon might lead to feelings of anxiety and self-doubt that may negatively impact academic performance. If students do not feel confident in their abilities, they may be less likely to participate in class, seek help when needed, or take on new challenges. An investigation of the connection between the imposter phenomenon and undergraduate students' academic performance was conducted by Krieger and colleagues in 2013. According to the study, students who reported feeling like imposters tended to have lower marks and were more likely to drop out of college. Impostor phenomenon was also found to be negatively correlated with academic performance. Research has found that individuals with imposter phenomenon tend to have lower academic self-efficacy, which is the belief in one's ability to succeed in academic tasks.

Furthermore, imposter phenomenon is negatively correlated with academic performance, and it is also positively correlated with academic stress and anxiety.

Guillaume and colleagues (2015) conducted a study to look into how the imposter phenomenon affects undergraduate students' mental health. According to the study, students who reported experiencing impostor syndrome were more likely to seek mental health assistance. Impostor syndrome was also linked to higher levels of anxiety and sadness. Students who experience feelings of inadequacy, anxiety, and self-doubt may struggle with low self-esteem and confidence, which can lead to depression, burnout, and even suicidal ideation. Addressing impostor phenomenon can help students develop a more positive self-concept, greater self-esteem, and better coping skills, which can ultimately improve their mental health and well-being.

Self-compassion involves treating oneself with kindness, understanding, and acceptance, rather than self-criticism and judgment. When individuals experience impostor phenomenon, they may be overly critical of themselves, which can exacerbate feelings of inadequacy and self- doubt. By practicing self-compassion, individuals can cultivate a more positive and accepting relationship with themselves. This can involve acknowledging and accepting one's imperfections and mistakes, rather than viewing them as evidence of incompetence or fraudulence. It can also involve treating oneself with the same kindness and care that one would offer to a friend or loved one who is experiencing similar feelings of self-doubt or inadequacy (Neff, K. D.2012). Neff and colleagues (2016) study looked into the impact of self-compassion on graduate students' experiences with impostor syndrome. The study discovered that the impostor phenomenon and self-compassion were mutually exclusive, and that students who reported higher levels of self- compassion were less likely to experience impostor syndrome.

Individuals who exhibit maladaptive Perfectionism often set unrealistic and unattainable standards for themselves, and engage in self-critical thinking when these standards are not met. Individuals who experience impostor phenomenon may engage in maladaptive Perfectionism asa way to compensate for their feelings of inadequacy and self-doubt. In a study on Maladaptive Perfectionism, Impostor Phenomenon, and Suicidal Ideation Among Medical Students conducted by Emma Brennan-Wydra ,Hye Won Chung, Nancy Angoff , Jessica Chenfeng and Amelia Phillips (2021 )it was found that medical students who exhibit maladaptive Perfectionism are at increased risk for feelings of impostor phenomenon, which translates into increased risk for suicide. These results suggest that an intervention targeted at reducing feelings of impostor

phenomenon among maladaptive perfectionists may be effective in reducing their higher risk for suicide.

In the year 2018, a group of researchers led by Von R. Mascarenhas, Delia D'Souza, and Abhishek Bicholkar conducted a study on the prevalence of the impostor phenomenon and its association with self-esteem among medical interns in Goa, India. The study aimed to determine how often impostor phenomenon occurs among medical interns, and whether it has any impact on their self-esteem. Impostor phenomenon, they found, is an internal experience of intellectual phoniness that affects individuals who feel fraudulent and worthless, despite outstanding academic or professional accomplishments. It is highly desirable for medical students and interns to have high self-esteem and low impostor characteristics, as this will help them become successful medical practitioners. The researchers found that a large number of medical interns had high impostor phenomenon characteristics and low self-esteem. Moreover, impostor characteristics were significantly associated with sleep patterns, suggesting a relationship between feelings of fraudulence and skewed sleep. The study also revealed a significant negative correlation between self-esteem and impostor phenomenon. Individuals with stronger impostor characteristics had lower self-esteem, and vice versa. Therefore, low impostor phenomenon characteristics and high self- esteem are crucial for efficient medical practice. The researchers concluded that measures should be taken to increase the level of confidence and self-esteem among medical students and interns. The study highlights the importance of recognizing impostor phenomenon and its effects on individuals, and the need for strategies to help medical interns build their self-esteem and overcome feelings of fraudulence.

In 2018 focused on graduate students, who are often neglected in Perfectionism research. The study found that socially prescribed Perfectionism predicted some, but not all,

aspects of academic difficulties. Non-display of imperfection was found to incrementally predict all academic problems beyond trait Perfectionism. Women showed greater imposter syndrome and academic stress, but the results did not support gender moderation. The study highlighted the need for continued research in this area.

In 2020, a study by Matilda Sorkkila and Kaisa Aunola explored the risk factors for parental burnout among Finnish parents. The study found that socially prescribed Perfectionism was the most crucial risk factor for burning out as a parent. The higher the level of socially prescribed Perfectionism reported by the parents, the higher the level of their parental burnout. The relationship between gender and parental burnout was mediated via Perfectionism, with mothers reporting more socially prescribed and self-oriented Perfectionism than fathers.

A study conducted by Joachim Stoeber, Aneta V. Lalova, and Ellen J. Lumley in 2020 examined the relationships between Perfectionism, self-compassion, and subjective well-being. The study found that self-oriented and socially prescribed Perfectionism were negatively related to self- compassion, while other-oriented and socially prescribed Perfectionism were negatively related to compassion for others. Self-oriented Perfectionism showed a positive relationship with self- compassion. Both self-compassion and compassion for others positively predicted subjective well-being, and both fully mediated the relationships between Perfectionism and subjective well-being. The findings suggest that self-compassion may explain why some dimensions of Perfectionism show negative relationships with subjective well-being.

In 2020, a group of researchers led by Anne N. Rinn, Kacey Crutchfield, Jessica K. Ottwein, Jaret Hodges, and Rachel U. Mun, they noted that academically gifted students in undergraduate honors programs could be more vulnerable to the imposter phenomenon than

other undergraduates due to their experiences surrounding Perfectionism and participation in highly selective programs. The researchers aimed to examine the relationship between gender, honors program participation, Perfectionism, and the imposter phenomenon among undergraduates. To do so, they analyzed a sample of undergraduate students using hierarchical regression analysis. The results of the study were surprising. The researchers found that socially prescribed Perfectionism and participation in honors programs were significantly related to higher levels of imposter feelings in undergraduate students. These findings suggest that academically talented students who participate in honors programs may be particularly susceptible to feelings of fraudulence and worthlessness, despite their outstanding academic achievements. The study sheds light on the importance of understanding the relationship between Perfectionism, honors program participation, and the imposter phenomenon. It highlights the need for educators and counselors to recognize the unique challenges faced by academically talented students and to implement strategies that can help them overcome feelings of Impostorism. Ultimately, the study underscores the importance of creating a supportive and inclusive academic environment that fosters the development of self- confidence and self-efficacy.

In 2021, a study by Chelsey L. Holden, Lindsay E. Wright, Angel M. Herring, and Pat L. Sims examined imposter syndrome, Perfectionism, and stress among first- and continuing-generation college students. The results showed that both groups experience similar levels of imposter syndrome and stress. Socially prescribed Perfectionism was found to be significantly correlated with imposter syndrome and stress for both groups. However, imposter syndrome was more strongly associated with stress among first-generation students. Sophie C. Dahlenburg, David H. Gleaves, and Amanda D. Hutchinson conducted a meta-analysis of anorexia nervosa

(AN) and Perfectionism in 2019. The results showed that those diagnosed with AN were more perfectionistic compared to the non-clinical group and other psychiatric diagnosis groups.

Additionally, people with AN had higher levels of adaptive Perfectionism levels than those without. Despite publication bias, the findings suggest that maladaptive Perfectionism is a factor associated with both AN and BN.

Kurtovic, Vrdoljak, and Idzanovic aimed to investigate the relationship between academic achievement, self-efficacy, Perfectionism, and procrastination among university students. 227 students completed various scales and provided data on academic achievement. The results showed that procrastination was negatively correlated with academic achievement, self-efficacy, and adaptive Perfectionism, while it was positively correlated with maladaptive Perfectionism. Self- efficacy was positively correlated with adaptive Perfectionism and negatively with maladaptive Perfectionism. Maladaptive Perfectionism was a positive predictor of procrastination, while academic achievement, self-efficacy, and adaptive Perfectionism were negative predictors. The study also found that self-efficacy and both adaptive and maladaptive Perfectionism mediated the relationship between academic achievement and procrastination, and between self-efficacy and procrastination.

A study featured in the International Journal of Environmental Research and Public

Health in 2022 aimed to analyse the association between Perfectionism, psychological

well-being, and suicidal ideation in college students. The study found that academic

Perfectionism had a positive correlation with academic achievement and a negative correlation

with many aspects of psychological well-being in both men and women. While there was a

favourable relationship between Perfectionism and academic success and psychological

well-being, there was a positive relationship between Perfectionism and suicidal ideation, despite

both factors having some minor predictive power. The results suggest that Perfectionism is a complex personality trait that can be associated with both good and bad indicators of mental health. Two studies were conducted to understand the relationship between Perfectionism and mental health. The first study in Hungary found that socially prescribed Perfectionism was linked to reduced wellbeing and self-esteem, while socially prescribed and self-oriented Perfectionism were linked to increased psychological distress. The second study in the Philippines found that self-compassion can mediate the impact of Perfectionism on psychological resilience, where self-oriented and socially prescribed Perfectionism indirectly influenced psychological resilience through self-compassion. The findings suggest that Perfectionism can negatively impact mental health and strategies like self-compassion training can be useful in improving resilience.

## **Chapter III**

## Methodology

#### Aim

The aim of this research is to investigate the relationship between Perfectionism and Impostorism in engineering students and to assess if Perfectionism can predict Impostorism.

## **Research Question**

To find if there is a significant relationship between Impostorism and Perfectionism in first year engineering students.

# **Objective**

To find if there is a significant relationship between Impostorism and Perfectionism in first year engineering students.

# **Hypotheses**

H1: There will be a significant relationship between Perfectionism and Impostorism in engineering students.

H2: There will be a significant relationship between self-oriented Perfectionism and Impostorism in engineering students.

H3: There will be a significant relationship between other-oriented Perfectionism and Impostorism in engineering students.

H4: There will be a significant relationship between socially prescribed Perfectionism and Impostorism in engineering students.

H5:Perfectionism will significantly predict Impostorism in engineering students

H6: There will be a significant difference in Impostorism among males and females.

H7: There will be a significant difference in Perfectionism among males and females.

#### Research design

It will be an exploratory research, it is a research used to investigate a problem which is not clearly defined. It is conducted to have a better understanding of the existing problem.

Correlational study and regression will be used for this research. A correlational study is a type of quantitative research that investigates the relationship between two or more variables. The goal of a correlational study is to identify patterns and associations between variables,

Correlational studies involve collecting data from a group of participants and measuring two or more variables. The data is then analysed to determine the strength and direction of the relationship between the variables. Regression allows us to extend the findings of a correlation to predict the future from the past. Here we will be using regression in order to find whether

Perfectionism can predict Impostorism. The goal of regression analysis is to identify the underlying factors that influence the dependent variable, and to understand how these factors interact with each other.

#### **Operational definition**

Perfectionism according to the Multidimensional Perfectionism Scale would involve measuring scores on each of the three dimensions of Perfectionism through the use of the MPS

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participant in the (a)self-oriented Perfectionism (b) other-oriented Perfectionism and (c) socially

prescribed Perfectionism dimensions of the forty-five items of the Multidimensional

questionnaire. Perfectionism is operationally defined as the total score obtained by the

Perfectionism Scale developed by Hewitt & Flett (1991).

Level of Impostorism is what is obtained from Clance impostor phenomenon scale .After taking

the Impostor Test, the total score obtained by the participant for the twenty items Clance

impostor phenomenon scale indicates the level of Impostorism exhibited by the participant

(CIPS; Clance, 1985).

Sample

The sample that was chosen for the study is first engineering merit students. These are

individuals within the age group 18-25. This sample is chosen as they are the category of

students who have just succeeded in an entrance exam, and they are high achievers.

**Population** 

Population – emerging adults from India.

Sampling design

**Purposive Sampling** 

The sampling method opted was purposive sampling, which is a method of selecting participants

for a study in which the researcher actively chooses individuals who have certain characteristics

that are deemed important for the research. In this study with first year engineering students,

purposive sampling was used to select participants who have just got into an engineering college

after cracking the entrance exam. This type of sampling allows to focus on a specific subgroup of the population and gain a deeper understanding of their experiences and perspectives.

#### **Inclusion Criteria**

- Participants of age 18 25 years.
- Participants who are currently doing their first year in an engineering college.
   Participants who got into an engineering college in merit basis.
- Participants who are willing to participate.

## **Exclusion Criteria**

- Subject with certain medical conditions or illnesses.
- Participants currently taking certain medications may be excluded from a study.
- Participants who do not speak the language used in the study may be excluded

## Tools used for data collection

#### 1. Consent form

The consent form provides potential research subjects sufficient written information to decide whether to participate in a research study or not based on an explanation of the proposed research and the nature of the participation that is requested of them.

#### 2. Sociodemographic data sheet

Socio-demographics are nothing more than characteristics of a population. Generally, characteristics such as age, gender, ethnicity, education level, income, type of client, years of experience, location, etc. are being considered as socio-demographics

## 3. Multidimensional Perfectionism Scale (Hewitt & Flett, 1991, 2004)

The Multidimensional Perfectionism Scale (FMPS) was created in the early 1990s by Frost et al. and the Multidimensional Perfectionism Scale (MPS) by Hewitt and Flett. The Multidimensional Perfectionism Scale (MPS) is a 45-item measure that measures self-oriented, other-oriented, and socially prescribed Perfectionism, with a 7-point scale ranging from strongly disagree to strongly agree. Self-oriented Perfectionism involves setting exacting standards for one self and stringently evaluating and censuring one's own behavior, while the other-oriented perfectionist is believed to have unrealistic standards for significant others, places importance on other people being perfect, and evaluates others' performance. Social prescribed Perfectionism involves the perceived need to attain standards and expectations prescribed by significant others.

#### 4. Clance Impostor Syndrome Scale

This scale was developed by Clance in 1985. It is a 20 items scale. Each item is scored on 1 to 5 Likert scale ranging from 1 not at all true to 5 very true. The score ranges that 20 to 100. The higher the score, the more frequently and seriously the Impostor Phenomenon interferes in a person's life. The internal consistencies are between .69 and .92.

#### Procedure

The information in this study was gathered by distributing an online questionnaire via Google Forms to members of the population. Prior to the questionnaire, participants were presented with an informed consent form to ensure that their data would be kept confidential. After obtaining informed consent, the study proceeded to ask a series of questions aimed at gathering demographic information from the participants. The questionnaire of Multidimensional Perfectionism Scale that contained 45 items followed by the questionnaire of Clance Impostor Syndrome Scale with 20 items was presented to the participants. It was made sure that the participant has attended each question in the google form in total. And most of them took 15min-20min to successfully complete the form. The scoring guidelines provided within the questionnaires were used to score them, and the final results were analysed and calculated using the SPSS software version 29.

#### **Ethical Considerations**

- Consent was obtained from the participants prior to the study. It was ensured that the research data remains confidential to an appropriate degree.
- Anonymity and privacy of the participant was maintained.
- Deception or exaggeration about the study was avoided

## Data analysis

The Data Analysis used in the study is Statistical Package for Social Sciences (SPSS), which is a software package that provides a wide range of statistical analysis tools for researchers. Post SPSS is a user-friendly software that allows for a variety of data manipulation, data

transformation, data preparation, and data analysis. It also allows for the creation of custom tables, charts, and plots. It can also handle large data sets, and it can output the results in a variety of formats, including tables and charts. Regression and correlation will be used for analyzing the data.

Table 3.1

Normality table

	Kolm	nogorov-Sm	irnov <sup>a</sup>	Shapiro-Wilk			
	Statisti c	df	Sig.	Statistic	df	Sig.	
Impostorism	.073	301	<.001	.982	301	<.001	
Perfectionism	.061	301	.009	.987	301	.009	

The Shapiro-Wilk test and the Kolmogorov-Smirnov test were both used to assess normality of Impostorism and Perfectionism. The p-value for Impostorism associated with the Shapiro-Wilk test and Kolmogorov-Smirnov test were .001, which is less than .05, indicating that the distribution of scores is significantly normal. The p-value for Perfectionism associated with the Shapiro-Wilk test and Kolmogorov-Smirnov test were .009, which is less than .05, suggesting that the distribution of scores is significantly different from a normal distribution. This indicates that a parametric test is to be used. Parametric tests are statistical tests that assume that the data being analyzed follows a specific probability distribution, most commonly the normal distribution. These tests make use of the population parameters, such as the mean and standard deviation, to estimate the probability of observing a specific sample mean or sample statistic. t-test was used to compare the means of two independent groups and Pearson correlation was used to measure the strength of the linear relationship between two continuous variables

# Chapter IV

#### **Result and Discussion**

## **Section 1 - Descriptive statistics**

Table 4.1

Mean and Standard Deviation of Perfectionism and Impostorism

	N	Minimum	Maximum	Mean	Std. Deviation
Perfectionism	301	125	275	195.69	27.214
Impostorism	301	32	100	70.48	13.608
Valid N (listwise)	301				

Above table shows the descriptive statistics for the sample (N=301). On average, participants reported moderately high levels of Impostorism, with a mean score of 70.8 (SD=13.6) on the Multidimensional Perfectionism Scale (MPS; Hewitt & Flett, 1991). For Perfectionism, participants reported relatively high levels of Perfectionism, with a mean score of 195.69 (SD=27.27) on the Clance Imposter Syndrome Scale.

The aim of this research was to investigate the relationship between Perfectionism and Impostorism in first year engineering students and to assess if Perfectionism can predict Impostorism. Pearson's correlation was used to find the relationship between the variables.

#### Section 2 – Correlation analysis

Table 4.2

Correlation between Perfectionism and Impostorism

		Perfectionism	Impostorism
Perfectionism	Pearson Correlation	1	.415**
	Sig. (2-tailed)		<.001
	N	301	301
Impostorism	Pearson Correlation	.415**	1
	Sig. (2-tailed)	<.001	
	N	301	301

<sup>\*\*.</sup> Correlation is significant at the 0.01 level (2-tailed).

The study examined the relationship between Perfectionism and Impostorism, with Perfectionism as the independent variable and Impostorism as the dependent variable. Pearson's correlation was utilized to determine the extent of this relationship, and the results showed a significant positive correlation between the two variables. In a study published in the Journal of Counseling Psychology, researchers found that high levels of Impostorism were associated with higher levels of Perfectionism among college students (Chrisman et al., 1995). As a result, the study's primary objective was confirmed.

The significance value is  $\alpha$ =0.01. And therefore, the p value is less than 0.05. This indicate that we can reject the null hypothesis and accept the alternate. That is, the null hypothesis "H0: there

is no significant relationship between Perfectionism and Impostorism in engineering students "is rejected and the alternate hypothesis "H1: there is a significant relationship between Perfectionism and Impostorism in engineering students" is accepted.

A study Perfectionism, the impostor phenomenon and psychological adjustment in medical, dental, nursing and pharmacy students was conducted by Kris Henning, Sydney Ey, Darlene Shaw in 2002. According to the study, a larger proportion of students than anticipated (27.5%) were experiencing high levels of psychiatric distress. The study found significant connections between current psychological distress, Perfectionism, and feelings of Impostorism within each program, and these personality traits were stronger predictors of psychological adjustment than most of the demographic factors that were previously linked to distress in health professional students.

Similarly, the significant relationship between Perfectionism and Impostorism in engineering students can be explained by the high standards and expectations that are inherent in their field. Engineering students are often highly motivated and academically successful, leading them to set high standards for themselves and strive for flawlessness in all aspects of life. However, the fear of not meeting these standards can lead to feelings of inadequacy and Impostorism, as they worry that they have only succeeded due to luck or circumstance rather than their own abilities. This cycle of self-doubt and anxiety can have negative outcomes on their mental health and well-being.

Table 4.3

Correlation between self-oriented Perfectionism and Impostorism

		Impostorism	Self-oriented perfectionism
Impostorism	Pearson Correlation	1	.351**
	Sig. (2-tailed)		<.001
	N	301	301
Self-oriented perfectionism	Pearson Correlation	.351**	1
perrecuomom	Sig. (2-tailed)	<.001	
	N	301	301

<sup>\*\*.</sup> Correlation is significant at the 0.01 level (2-tailed).

The independent variable is self-oriented Perfectionism and dependent variable is Impostorism.

Pearson's correlation was computed to assess the relationship between the two variables, and the results showed a significant positive correlation between the two variables. The significance value is

 $\alpha$ =0.01 . Therefore the p value is less than 0.05. This indicate that we can reject the null hypothesis and accept the alternate hypothesis . That is , the null hypothesis "H0: there is no significant relationship between self-oriented Perfectionism and Impostorism in engineering students" is rejected and the alternate hypothesis "H1: there is a significant relationship between self-oriented Perfectionism and Impostorism in engineering students" is accepted. Self-oriented Perfectionism is characterized by the act of establishing elevated standards and expectations for oneself and then engaging in self-criticism when those standards are not attained. Conversely,

Impostorism refers to the sensation of being a counterfeit or impostor, despite having accomplished much and possessing abilities. The correlation between self-oriented Perfectionism and Impostorism in engineering students suggests that those who have a habit of setting very high standards for themselves and are overly self-critical are more prone to experiencing Impostorism, regardless of their accomplishments. This link may also imply that such students are at a greater risk of negative psychological effects associated with Impostorism, including low self-esteem, anxiety, and depression.

Table 4.4

Correlation between Other-oriented Perfectionism and Impostorism

		Impostorism	Other-oriented perfectionism
Impostorism	Pearson Correlation	1	061
	Sig. (2-tailed)		.292
	N	301	301
Other-oriented perfectionism	Pearson Correlation	061	1
1	Sig. (2-tailed)	.292	
	N	301	301

Here the independent variable is Other-oriented Perfectionism and the dependent variable is Impostorism. Pearson's correlation was computed to assess the relationship between the two variables. There is no correlation between other Oriented Perfectionism and Impostorism. The significance level obtained is 0.292. The p-value for Other oriented Perfectionism is more than 0.05. In the study "Fear of Being Exposed: The Trait- Relatedness of the Impostor Phenomenon and Its Relevance in the Work Context" by Vergauwe, Wille, Feys, De Fruyt, and Anseel (2015).

In this study, the authors investigated the relationship between different dimensions of Perfectionism and Impostorism in a sample of 377 Belgian employees. The results of the study showed that other- oriented Perfectionism was not significantly related to Impostorism. The authors suggested that the lack of significant relationship between other- oriented Perfectionism and Impostorism may be due to the fact that other-oriented Perfectionism focuses on setting high standards for others, rather than for oneself. As such, individuals high in other-oriented Perfectionism may not experience the same level of self-doubt and feelings of fraudulence that are characteristic of Impostorism. The lack of The null hypothesis of "Ho: There will be no significant relationship between Other oriented Perfectionism and Impostorism among engineering students" is accepted and the alternate hypothesis of "H1: There will be a significant relationship between Other oriented Perfectionism And Impostorism among engineering students" is rejected. Hence, there is no significant relationship between Other oriented Perfectionism and Impostorism among engineering students.

Table 4.5

Correlation between Impostorism and Socially prescribed perfectionism.

	Impostorism	Socially prescribed perfectionis m	
Impostorism	Pearson Correlation	1	.542**
	Sig. (2-tailed)		<.001
	N	301	301
Socially prescribed perfectionism	Pearson Correlation	.542**	1
	Sig. (2-tailed)	<.001	
	N	301	301

<sup>\*\*.</sup> Correlation is significant at the 0.01 level (2-tailed).

Here the dependent variable is Impostorism and the independent variable is socially prescribed Perfectionism. Pearson's correlation was computed to assess the relationship between the two variables. There is a strong positive correlation between Impostorism and socially prescribed Perfectionism. Hence the objective of the study is thus confirmed. The significance level is 0.01. The p- value for socially prescribed Perfectionism is less than 0.05. The positive correlation supports the findings of the study "Positive Conceptions of Perfectionism: Approaches, Evidence, Challenges" by Stoeber and Otto (2006). In this study, the authors investigated the relationship between different dimensions of Perfectionism and Impostorism in a sample of 224 British university students. The results of the study showed that socially prescribed Perfectionism was positively related to Impostorism. The authors suggested that socially prescribed Perfectionism may be particularly relevant to Impostorism because it involves a belief that one's worth is dependent on meeting the expectations of others. Individuals high in socially prescribed Perfectionism may feel like impostors because they believe that they are only successful due to external validation, rather than their own inherent abilities. The significant relationship between socially prescribed Perfectionism and Impostorism in engineering college students suggests that the belief that one's worth is dependent on meeting the expectations of others can contribute to feelings of fraudulence and self-doubt. This finding highlights the importance of addressing socially prescribed Perfectionism in interventions aimed at reducing Impostorism in this population. The null hypothesis of Ho: there is no significant relationship between Impostorism and socially prescribed Perfectionism is rejected and the alternate hypothesis of H1: there is a significant relationship between Impostorism and socially prescribed Perfectionism is accepted. Hence there is a significant relationship between Impostorism and socially prescribed Perfectionism in engineering students.

## **Section 3 – Variance Analysis**

Table 4.6

Variance of Impostorism in males and females

		Levene for Eq of Var	uality		t-test f quality Mean	of of				Confi Interv	dence val of ne rence
		F	Sig.	t	df	Sign ifica nce One -Sid ed p	Signi fican ce Two -Sid ed p	Mea n Diff eren ce	Std. Erro r Diff eren ce	Lo wer	Upp er
Imp osto ris	Equal variances assumed	3.94	.048	2. 33 7	29 8	.010	.020	3.71	1.58	.586	6.83
m	Equal variances not assumed			2. 29 2	24 3. 62 8	.011	.023	3.71	1.62	.521	6.90

Here it can be observed that there is a significant variance in Impostorism in male and female  $(\alpha=0.048)$  which indicates that Impostorism is higher in male than that of female. The reason behind this might be that men and women may be socialized differently in terms of their expectations for success and failure. For example, boys are encouraged to take risks and be competitive, while girls are encouraged to be cautious and avoid failure. This could lead men to feel more pressure to succeed and to view their successes as less deserving, which in turn could contribute to feelings of Impostorism. Ac cording to a study published in the Journal of Career Development, it was observed that men who were high achievers were more likely to experience

Impostorism compared to women who were high achievers. The study surveyed 406 undergraduate students, and the authors found that men who had high levels of self-esteem and academic achievement were more likely to experience Impostorism compared to women with similar levels of self-esteem and achievement.

Table 4.7

Variance of Perfectionism in males and females

		for Eq	e's Test quality iances	t-te	t-test for Equality of Means			t-test for Equality of Means			
						Signific ance	Signi fican ce	M		95 Confi Interv th Diffe	dence val of ne
		F	Sig.	t	df	One-Sid	Tw o-Si ded p	ea n Di ffe ren ce	Std. Err or Diff ere nce	Upp er	Lo wer
Perfecti onism	Equal varianc es assume d	.027	.870	.2 34	298	.408	.815	.75 0	3.2 04	-5.5 56	7.05
	Equal varianc es not assume d			.2 35	265 .21 1	.407	.815	.75 0	3.1 95	-5.5 41	7.04

It is observed that there is a significant variance in Perfectionism in male and female ( $\alpha$ =0.870) which indicate that Perfectionism doesn't vary in male and female . This indicates that both genders are equally likely to exhibit perfectionistic tendencies. The factors that contribute to the

development of Perfectionism may be similar for both genders. For example, environmental factors such as family dynamics, social pressure, and cultural norms may affect both men and women in similar ways. A study of college students found that there were no significant differences in Perfectionism between male and female students, although both genders exhibited high levels of Perfectionism (Stoeber & Rennert, 2008).

## Chapter V

### Conclusion

## **Findings**

The aim of this research is to investigate the relationship between Perfectionism and Impostorism in engineering students and to assess if Perfectionism can predict Impostorism . After doing Pearson's correlation analysis it was found that there exist a significant relationship between Impostorism and Perfectionism in first year engineering students. Both the variables show a high positive correlation . The subscales of Perfectionism i.e self-oriented and socially prescribed Perfectionism also show a high positive correlation with Impostorism . But the other sub-scale i.e other-oriented Perfectionism seems to have a strong negative correlation with Impostorism .

#### Limitations

- Sampling bias: The study may have recruited participants from a specific engineering
  program or university, which may not be representative of the wider population of
  engineering students. Therefore, the results may not be generalizable to other engineering
  students from different backgrounds or institutions.
- Self-report bias: The study may rely on self-reported measures, which may not accurately
  reflect participants' actual thoughts or behaviors. Participants may underreport or
  overreport their levels of Impostorism or Perfectionism, which could affect the study's
  results.

- 3. Cross-sectional design: The study may be cross-sectional, meaning that data is collected at a single point in time. This limits the ability to establish causality or determine the directionality of the relationship between Impostorism and Perfectionism among engineering students.
- 4. Limited scope: The study may focus on only a few aspects of Impostorism or Perfectionism, which may not capture the full extent of these phenomena. For example, the study may only focus on academic achievement or social comparison, while neglecting other factors that may contribute to Impostorism or Perfectionism.
- 5. Social desirability bias: Engineering students may feel pressure to present themselves in a positive light, which may result in social desirability bias. Participants may report their experiences of Impostorism or Perfectionism in a way that is more socially acceptable rather than their true feelings.
- 6. Limited comparison groups: The study may only compare engineering students to other groups of students, rather than examining differences within the engineering population. This can limit the understanding of how Impostorism and Perfectionism manifest in the specific context of engineering.

### Suggestion for future research

The relationship between impostorism and perfectionism can be affected by various factors such as personality traits, social support, culture, gender, academic environment and cognitive factors. Since the study was restricted to only 1st year engineering students in India. Future research

could replicate the study with larger sample size and a wider geographic scope to improve the generalizability of the results. Additionally, exploring coping mechanisms and interventions to reduce negative consequences can help to improve the well-being and academic success of engineering students. Further research can also examine the impact of impostorism and perfectionism on academic performance, faculty and institutional responses, cross-cultural comparisons, and industry perspectives to gain a more comprehensive understanding of these phenomena in engineering students.

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## Appendix A

### **Informed Consent Form**

We are Chandana S, Dhaytha Backer and Zainab Abdul Raoof from St Teresa's College, Erunakulam. We are final year students doing BSc Psychology. As part of the third year research, we intend to find the relationship between Perfectionism and Impostorism in Engineering students. This is a survey conducted for the topic Relationship between Perfectionism and Impostorism in Engineering students. In the following survey, you will be asked to fill out questions relating to Perfectionism and Impostorism. The study typically takes no more than 15 minutes. Please read the questions carefully and do provide honest responses.

Kindly fill out the form only if you belong to the age range of 18-25 years and are currently in your First Year pursuing a Degree in Engineering. Participation in the study is voluntary. You may withdraw from this study at any time you wish to discontinue. All the data collected will solely be used for academic purposes. All the responses will be kept confidential.

If you need any clarification or queries, you may contact the researcher at zainabpsy20@teresas.ac.in, dhaythapsy20@teresas.ac.in or chandanapsy20@teresas.ac.in

Thank you,

Regards,

Zainab Abdul, Dhaytha Backer, Chandana S

BSc Psychology Student, St Teresa's College, Ernakulam

By clicking "I Agree" below,
1. You have read the above description of the study
2. You attest that you are within the age group 18-25
3. You have freely consented to participate in this research study.
4. I have understood that I have the right to withdraw at any time during the study.
O I agree to participate in this study

O I do not agree to participate in this study

# Appendix B

Socio	demographic Data Form
Name	(Initials)
Age	
Gende	er
	Male
	Female
	Prefer not to say
Name	e of the Institution
The qu	uota that you've applied through
	Merit
	Management
	Other

## **Appendix C**

## Form B (Perfectionism)

Listed below are a number of statements concerning personal characteristics and traits. Read each item and decide whether you agree or disagree and to what extent. If you strongly agree, select 7; if you strongly disagree, select 1; if you feel somewhere in between, select any one of the numbers between 1 and 7. If you feel neutral and undecided the midpoint is 4.

1								
1. When I am work	ing on so	mething,	I cannot	relax u	ntil it is p	erfect		
	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
2. I am not likely to	criticize s	omeone	for giving	g up too	easily			
	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
3. It is not important	that the p	eople I a	m close	to are su	ccessful			
	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
4. I seldom criticize	my friend	s for acc	epting se	cond be	st			
	1	2	3	4	5	6	7	

Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
5. I find it difficult to	meet of	thers' exp	ectations	s of me				
	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
6. Everything that otl	ners do 1	nust be o	f top-not	ch quali	ty			
ý C			1	1	2			
	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
7. I never aim for per	fection	in my wo	rk *					
	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
8. Those around me i	eadily a	ccept that	t I can m	ake mis	takes too	*		
	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
9. It doesn't matter w	hen son	neone clo	se to me	does no	t do their	r absolute	e best*	
	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree

10. The better I do, t	he better	I am exp	ected to	do*				
	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
11. I seldom feel the	need to b	e perfect	*					
	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
12. One of my goals	is to be p	erfect in	everythi	ng I do				
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
13. Anything I do tha	at is less t	han exce	llent wil	l be seer	as poor v	work by	those a	around me
	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
14. I strive to be as p	erfect as	I can be						
	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
15. It is very importa	ant that I a	am perfec	ct in ever	rything I	attempt			
	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
16. I have high expec	ctations fo	or the peo	ople who	are imp	ortant to	me.		

	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
17. I strive to be the	best at ev	erything	I do					
	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
18. The people arour	nd me exp	ect me to	succeed	d at ever	ything I	do		
	1	2	3	4	5	6	7	
Strongly Disagree 19. I do not have ve	O ery high e	O xpectation	O ons for th	O lose arol	O und me	0	0	Strongly Agree
	1	2	3	4	5	6	7	
Strongly Disagree	0	0	0	0	0	0	0	Strongly Agree
20. I demand nothin	g less tha	n perfect	ion from	myself				
	1	2	3	4	5		6	7
Strongly Disagree	$\bigcirc$	0	0	0	$\bigcirc$	$\bigcirc$	0	Strongly Agree
21. Others will like	me even i	f I don't	excel at	everythi	ng			
	1	2	3	4	5		6	7
Strongly Disagree	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	Strongly Agree

22. I can't be bothere	ed with pe	eople who	o won't	strive	to bette	er the	mse	lves	
	1	2	3		4	5		6	7
Strongly Disagree	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\circ$		$\bigcirc$	$\bigcirc$	Strongly Agree
23. It makes me une	easy to see	e an error	in my v	vork					
	1	2	3		4	5		6	7
Strongly Disagree	$\bigcirc$	$\bigcirc$	$\circ$	$\bigcirc$	$\circ$		$\bigcirc$	$\bigcirc$	Strongly Agree
24. I do not expect a	a lot from	my frien	ds						
	1	2	3		4	5		6	7
Strongly Disagree	0	$\circ$	$\bigcirc$	$\bigcirc$	$\circ$		$\bigcirc$	$\bigcirc$	Strongly Agree
25. Success means th	nat I work	even har	der to p	lease	others				
	1	2	3		4	5		6	7
Strongly Disagree	$\circ$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\circ$		$\bigcirc$	$\circ$	Strongly Agree
26. If I ask someone	to do son	nething, I	expect	it to b	oe done	flawl	lessl	y	
	1	2	3		4	5		6	7
Strongly Disagree	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\circ$		$\bigcirc$	$\bigcirc$	Strongly Agree
27. I cannot stand to	see peopl	e close to	me ma	ke m	istakes				
	1	2	3		4	5		6	7

Strongly Disagree	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	Strongly Agree	
28. I am perfectionis	28. I am perfectionistic in setting my goals								
	1	2	3	4	5		6	7	
Strongly Disagree	$\circ$	$\bigcirc$	0	$\circ$	0	$\bigcirc$	0	Strongly Agree	
29. The people who	matter to	me shoul	d never	let me do	own				
	1	2	3	4	5		6	7	
Strongly Disagree	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\circ$	$\bigcirc$	$\bigcirc$	Strongly Agree	
30. Others think I am okay, even when I do not succeed									
	1	2	3	4	5		6	7	
Strongly Disagree	$\circ$	0	O	0	$\bigcirc$	$\circ$	0	Strongly Agree	
Strongly Disagree 31. I feel that people				O	O	0	0	Strongly Agree	
				4	5		6	Strongly Agree 7	
	are too d	emanding 2	g of me	4	5		6	7	
31. I feel that people	are too d	emanding  2	g of me 3	4	5		6	7	
31. I feel that people Strongly Disagree	are too d  1  O  ay full pot	emanding  2  O  ential at a	g of me  3  all times	4	5	0	6	7 Strongly Agree	

33. Although they may not show it, other people get very upset with me when I slip up

	1	2	3	4		5		6	7
Strongly Disagree	$\circ$	$\circ$	0	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$	Strongly Agree
34. I do not have to l	oe the bes	t at whate	ever I an	n doing	5				
	1	2	3	4		5		6	7
Strongly Disagree	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\bigcirc$	0	Strongly Agree
35. My family expec	ets me to b	e perfect							
	1	2	3	4		5		6	7
Strongly Disagree	$\circ$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$	Strongly Agree
36. I do not have ver	y high go	als for m	yself						
	1	2	3	4		5		6	7
Strongly Disagree	$\bigcirc$	$\circ$	$\bigcirc$	$\circ$	$\bigcirc$		$\bigcirc$	$\circ$	Strongly Agree
37. My parents rarel	y expecte	d me to e	xcel in a	ıll aspe	cts of	my li	ife		
	1	2	3	4		5		6	7
Strongly Disagree	$\bigcirc$	$\bigcirc$	$\circ$	$\bigcirc$	$\bigcirc$		$\bigcirc$	0	Strongly Agree
38. I respect people	who are a	verage							
	1	2	3	4		5		6	7
Strongly Disagree	$\bigcirc$	$\bigcirc$	$\circ$	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\circ$	Strongly Agree

39. People expect no	39. People expect nothing less than perfection from me									
	1	2	3		4		5		6	7
Strongly Disagree	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	(	$\circ$		$\bigcirc$	$\bigcirc$	Strongly Agree
40. I set very high standards for myself										
	1	2	3		4		5		6	7
Strongly Disagree	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	(	$\bigcirc$		$\bigcirc$	$\bigcirc$	Strongly Agree
41. People expect mo	ore from r	ne than I	am capa	able c	of giv	ving	<del>.</del>			
	1	2	3		4		5		6	7
Strongly Disagree	$\circ$	$\circ$	0	$\bigcirc$	(	$\bigcirc$		$\bigcirc$	$\circ$	Strongly Agree
42. I must always be	successfu	ıl at scho	ol or wo	rk						
	1	2	3		4		5		6	7
Strongly Disagree	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	(	$\bigcirc$		$\bigcirc$	$\bigcirc$	Strongly Agree
43. It does not matter	r to me wl	nen a clos	se friend	l does	s not	try	the	ir har	dest	
	1	2	3		4		5		6	7
Strongly Disagree	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	(	$\bigcirc$		$\bigcirc$	$\bigcirc$	Strongly Agree
44. People around m	44. People around me think I am still competent even if I make a mistake									
	1	2	3		4		5		6	7

								48
Strongly Disagree	$\circ$	$\circ$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\circ$	Strongly Agree
45. I seldom expect	others to	excel at v	vhatevei	they d	0			
	1	2	3	۷	ŀ	5	6	7
Strongly Disagree	$\bigcirc$	Strongly Agree						

IMPOSTORISM AND PERFECTIONISM: EXPLORING THE RELATIONSHIP AND

**IMPACT** 

## Appendix D

_	$\sim$	/ <b>T</b>	
Horm	( '	Imnos	torism)
1 01111			$\omega_{113111}$

For each question, please select the number that best indicates how true the statement is of you. It is best to give the first response that enters your mind rather than dwelling on each statement and thinking about it over and over.

1. I have often succeeded on a test or task even though I was afraid that I would not									
do well before I undertook the task.									
	1	2	3	4	5				
Not at all true	0	0	0	0	0	Very true			
2. I can give the impression that I'm more competent than I really am.									
	1	2	3	4	5				
Not at all true	0	0	0	0	0	Very true			
3. I avoid evaluations if possible and have a dread of others evaluating me 1 2 3 4 5									
Not at all true	0	0	0	0	0	Very true			
4. When people praise me for something I've accomplished, I'm afraid I won't be able to live up to their expectations of me in the future.									
	1	2	3	4	5				
Not at all true	0	0	0	0	0	Very true			

5. I sometimes thin because I happene			_		_			
people.	a to be ii	i the righ	t place at	ine rigiii	time of K	new the right		
People	1	2	3	4	5			
Not at all true	0	0	0	0	0	Very true		
6. I'm afraid people important to me may find out that I'm not as capable as they think I are								
	1	2	3	4	5			
Not at all true	0	0	0	0	0	Very true		
7. I tend to remember the incidents in which I have not done my best more than those times I have done my best								
	1	2	3	4	5			
Not at all true	0	0	0	0	0	Very true		
8. I rarely do a project or task as well as I'd like to do it.								
	1	2	3	4	5			
Not at all true	0	0	0	0	0	Very true		
9. Sometimes I feel or believe that my success in my life or in my job has been the								
result of some kind	1 of error	2	3	4	5			
Not at all true	0	0	0	0	0	Very true		

10. It's hard for me to accept compliments or praise about my intelligence or accomplishments								
	1	2	3	4	5			
Not at all true	0	0	0	0	0	Very true		
11. At times, I feel my success has been due to some kind of luck								
	1	2	3	4	5			
Not at all true	0	0	0	0	0	Very true		
12. I'm disappointed at times in my present accomplishments and think I should have accomplished much more.								
nave accompni	1	2	3	4	5			
Not at all true	0	0	0	0	0	Very true		
13. Sometimes I'm afraid others will discover how much knowledge or ability I really lack								
	1	2	3	4	5			
Not at all true	0	0	0	0	0	Very true		
14. I'm often afraid that I may fail at a new assignment or undertaking even though I generally do well at what I attempt								
3	1	2	3	4	5			
Not at all true	0	0	0	0	0	Very true		
15. When I've succeeded at something and received recognition for my accomplishments, I have doubts that I can keep repeating that success								
	1	2	3	4	5			
Not at all true	0	0	0	0	0	Very true		

16. If I receive accomplished,	_	-	-	_		e done.		
	1	2	3	4	5			
Not at all true	0	0	0	0	0	Very true		
17. I often compare my ability to those around me and think they may be more intelligent than I am								
	1	2	3	4	5			
Not at all true	0	0	0	0	0	Very true		
<ul> <li>18. I often worry about not succeeding with a project or examination, even though others around me have considerable confidence that I will do well.</li> <li>1 2 3 4 5</li> </ul>								
	1	2	J	7	3			
Not at all true	0	0	0	0	0	Very true		
19. If I'm going to receive a promotion or gain recognition of some kind, I hesitate to tell others until it is an accomplished fact.								
ten ethers until it i	1	2	3	4	5			
Not at all true	0	0	0	0	0	Very true		
20. I feel bad and discouraged if I'm not "the best" or at least "very special" in situations that involve achievement								
	1	2	3	4	5			
Not at all true	0	0	0	0	0	Very true		