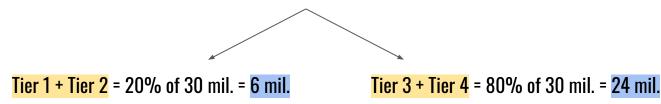
## **GUESSTIMATION**

## **Problem Statement:**

What is the total number of internships (including apprenticeships) that get offered in a year in India?

## **Solution:**

Number of students in India enrolling in college every year = 30 million



- → Here we have categorised colleges into 2 categories according to their rankings 1) Tier 1 + Tier 2

  2) Tier 3 + Tier 4
- → We have considered that 20% of the total students belong to the 1st category and 80% to the second category.

## 1. For Tier 1 + Tier 2 = 6 million students

**UG Students** = 70% of 6 mil. = **4.2** mil.

**PG Students** = 30% of 6 mil. = **1.8 mil.** 

For simplicity we have assumed that all programs can be divided into UG and PG, courses like integrated programs are considered included in these.

## For UG Students:

- → We will assume that all UG programs have 4 academic years (1st, 2nd, 3rd and 4th year)
- → We assume that all the students who enroll in the 1st year complete the program and pass all the respective years.
- → We assume that maximum internships are done in the 3rd year of the program
- → We assume that apprenticeship offers given only to the 4th year students.
- We assume that no student interns after graduating

% of total students getting internships in each year

2nd year

1st year

5%=

2100

5%=

2100

1,19,700

	odon your				(internanipa)	approntioosinps
Engineering and	20% of 4.2 mil	10% =	30% =	100% =	30% =	30% =
Technology	= 84000	8400	25,200	84,000	25,200	25,200
Humanities	50% of 4.2 mil	5% =	15% =	50% =	15% =	15% =
	= 21,00,000	1,05,000	3,15,000	10,50,000	3,15,000	3,15,000
Science	10% of 4.2 mil	5%=	15% =	50% =	15% =	15% =
	= 42,000	2100	6300	21,000	6300	6300

15% =

6300

15% =

6300

3,59,100

3rd year

50% =

21.000

50% =

21,000

2,52,000

4th year

15% =

6300

15% =

6300

3,59,100

(internshins)

4th year

15% =

6300

15% =

6300

3,59,100

annrenticeshins

10% of 4.2 mil = 42,000 10% of 4.2 mil = 42.000

**Grand Total = 14,49,000** 

Commerce

Others

Total

Total students in

each vear

### For PG Students:

- → We will assume that all PG programs have 2 academic years (1st and 2nd)
- → We assume that all the students who enroll in the 1st year complete the program and pass both the year.
- We assume that maximum internships are done in the 1st year of the program and apprenticeship offers are given in the second year.
- → We assume that no student interns after graduating

% of total students getting internships in each year

	Total students in each year	1st year	2nd year (internships)	2nd year (apprenticeships)
Management	20% of 1.8 mil = 3,60,000	100% = 3,60,000	30% = 1,08,000	40% = 1,44,000
Others	80% of 1.8 mil = 14,40,000	70% = 11,52,000	50% = 7,20,000	30% = 4,32,000
Total		15,12,000	8,28,000	5,78,000

**Grand Total = 29,18,000** 

## 2. For Tier 3 + Tier 4 = 24 million students

For simplicity we have assumed that all programs can be divided into UG and PG, courses like integrated programs are considered included in these.

## For UG Students:

- → We will assume that all UG programs have 4 academic years (1st, 2nd, 3rd and 4th year)
- → We assume that out all the students who enroll in the 1st year, 80% reach 3rd and 4th year ( = 13.44 mil.)
- → We assume that internships are done in the 3rd year of the program.
- → We assume that apprenticeship offers given only to the 4th year students.
- ➡ We assume that students who graduated previous year also apply for internship and apprenticeships.

### Tota eacl

**Engineering and** 

**Technology** 

**Humanities** 

Science

Commerce

Others

Total

**Grand Total = 1,19,88,400** 

# Total students in each year

20% of 13.44 mil

50% of 13.44 mil

10% of 13.44 mil

10% of 13.44 mil

10% of 13.44 mil

= 26.88.000

= 67.20.000

= 13.44.000

= 13.44.000

= 13.44.000

3rd year

80% =

10% =

20% =

30% =

10% =

1.34.400

33,86,800

4.03.200

2.68.800

6.72.000

21.50.400

4th year

30% =

10% =

20% =

30% =

10% =

1.34.400

22,84,800

4.03.200

2.68.800

6.72.000

8.06.400

(internships)

% of total students getting internships in each year

apprenticeships

Graduate

20% =

10% =

20% =

30% =

10% =

1.34.400

20.16.000

4.03.200

2.68.800

6.72.000

5.37.600

(internships)

Graduate

20% =

10% =

20% =

30% =

10% =

1.34.400

20,16,000

4.03.200

2.68.800

6.72.000

5.37.600

apprenticeships

4th year

30% =

10% =

20% =

30% =

10% =

2.68.800

4.03.200

1.34.400

22,84,800

8.06.400

6.72.000

#### **For PG Students:**

- → We will assume that all PG programs have 2 academic years (1st and 2nd)
- → We assume that out all the students who enroll in the 1st year, 80% reach 2nd year ( = 5.76 mil.)
- We assume that maximum internships are done in the 1st year of the program and apprenticeship offers are given in the second year.
- → We assume that no student interns after graduating

% of total students getting internships in each year

	Total students In 1st year	Total students In 2nd year	1st year	2nd year intern.	2nd year apprentice.	Graduate intern	Graduate apprentice
Management	20% of 7.2 mil = 1440000	20% of 5.76 mil = 11,52,000	70% = 10,08,000	40% = 4,60,800	20% = 2,30,400	20% = 2,30,400	20% = 2,30,400
Others	80% of 7.2 mil = 5760000	80% of 5.76 mil = 46,08,000	30% = 17,28,000	30% = 13,82,400	20% = 9,21,600	20% = 9,21,600	20% = 9,21,600
Total			27,36,000	18,43,200	11,52,000	11,52,000	11,52,000

**Grand Total = 80,35,200** 

## **Total Number:**

Adding the four Grand Totals = 2,43,90,600

→ Total number of internships (including apprenticeships) that get offered in a year in India = 24 million