**-: PROJECT REPORT :-**

**>>**ABSTRACT:

->BACK GROUND:

- **Engineering Agricultural and Medical Entrance Test**, commonly called as **EAMCET**, is an [entrance examination](https://en.wikipedia.org/wiki/Entrance_examination) held separately in the [Indian Telugu States](https://en.wikipedia.org/wiki/Indian_States) of [Andhra Pradesh](https://en.wikipedia.org/wiki/Andhra_Pradesh) and [Telangana](https://en.wikipedia.org/wiki/Telangana) for admission into various colleges across both the states in the streams of [Engineering](https://en.wikipedia.org/wiki/Engineering_education), [Medicine](https://en.wikipedia.org/wiki/Medical_education) and [Agriculture](https://en.wikipedia.org/wiki/Agriculture_Education).

->WHY EAMCET RANK CALUCULATION:

-The EAMCET is a yearly examination taken by a large number of engineering and medical aspirants in Andhra Pradesh and Telangana State. Presently the [Jawaharlal Nehru Technological University, Kakinada](https://en.wikipedia.org/wiki/Jawaharlal_Nehru_Technological_University,_Kakinada) conducts AP EAMCET examination on behalf of APSCHE and [Jawaharlal Nehru Technological University, Hyderabad](https://en.wikipedia.org/wiki/Jawaharlal_Nehru_Technological_University,_Hyderabad) conducts TS EAMCET examination on behalf of TSCHE. This is the entrance exam for engineering ('E' category) and medicine ('AM' category: Agriculture and Medicine).

->HOW TO PERFORM EAMCET RANK CALUCULATION:

- **EAMCET** weightage Formula

Your **EAMCET** score x 75/160. Thus, to **calculate** the actual contribution of your **marks** in the total **EAMCET** score, multiply the same by 0.46875. After knowing the Weightage, you can now predict your rank using the **EAMCET** Rank Predictor.

**>>** INTRODUCTION:

-> PROBLEM STATEMENT:

- Calculating the EAMCET Rank based on the rules and regulations of Andhra Pradesh State Council of Higher Education (APSCHE).

-> OBJECTIVE:

-The Aim of the Project is to issue the Rank for the Students based on the Percentage of marks obtained in the EAMCET and Intermediate Public Examinations (IPE).

-With the Rank a Student can get a seat in the Engineering Colleges on Merit Basis.

-> PROJECT DESCRIPTION:

-First, we will be the giving the Number of Students Attended the

EAMCET Examination.

-Then we will be giving the input data such as Hall ticket number, Name, Date of birth, Region, Category.

-The marks obtained in EAMCET Examination in the following subjects:

. Mathematics (Out of 80):

. Physics (Out of 40):

. Chemistry (Out of 40):

-And Next, the Marks obtained in Intermediate Public Examination (IPE) in the following subjects:

. Mathematics (out of 300):

. Physics (Out of 150):

. Chemistry (out of 150):

-And in Next Step, we are going to calculate the total number of Marks obtained in both the Examinations:

. Total Number of Marks in EAMCET Examination:

. Total Number of Marks in Intermediate Public Examination:

-Based on the Rules of APSCHE, to calculate the EAMCET rank we should calculate 75% of the Total EAMCET Marks and 25% of the IPE Total Marks were taken for the Consideration .

-Next, we are going to normalize the marks

. A (75% of EAMCET Marks) = Total Marks in EAMCET\*(0.46875)

. B (25% of the IPE Marks) = Total Marks in IPE\*(0.04166666666)

-Next, Percentage of Marks is given by

. Total Percentage of Marks = A + B

-Based on the Above Percentage the Rank has been calculated.

-Then we will sort the order of Percentage in a decreasing order, then we will issue the Rank for that Order.

-Then the Merit List of Students are Prepared.

-For the Preparation of Merit List, in case of more than one student securing the combined as mentioned above, the tie shall be resolved to decide the relative ranking by successively consider the following

1.The Total marks secured in AP EAMCET-2020

2.The Marks Secured in Mathematics in AP EAMCET-2020

3. The Marks Secured in Physics in AP EAMCET-2020

4. The Marks Secured in Chemistry in AP EAMCET-2020

5.The Percentage of Aggregate marks secured in qualifying Examination (Intermediate Public Examination)

6.If the tie still persists, the older (based on date of Birth) being given preference over younger.

->INPUT:

-For the Calculation of the EAMCET Rank we should consider the following:

1.Hall ticket Number of the Student:

2.Name of the Student:

3.Date of Birth:

4.Gender:

5.Region:

6.Category:

7.Marks Obtained in Mathematics, Physics, Chemistry in the EAMCET Examination:

8.Marks Obtained in Mathematics, Physics, Chemistry(Including Practical’s)in the Intermediate Public Examination:

-> OUTPUT:

**-**The Output may be displayed as,

1.Hall ticket Number of the Student:

2.Name of the Student:

3.Date of Birth:

4.Gender:

5.Region:

6.Category:

7.Percentage of Marks:

8.Rank:

->CONCLUSION:

- Upto now the Program have been developed for the calculation of the percentage of the Marks in the EAMCET.

-And the rules to resolve the condition if more than one student persist same Marks.

-> DETAIL EXPLANATION OF PROJECT:

https://youtu.be/04vUz4zhgac