P1
Engineering SGPA/CGPA Calculator

28ᵗʰ Dec 2021

OVERVIEW and Details

 CGPA refers to the cumulative grade point average which literally translates to the sum total of all your credit points. This system helps in assessing the overall academic performance of a student. Although the evaluation criteria may vary from one country to another, the CGPA system is among the most common evaluation way in most professional/technical courses

Key details on SGPA and CGPA:

How do you Calculate SGPA?

SGPA, which stands for Semester Grade Point Average is an evaluation method that highlights the semester wise performance of the student. It can be calculated by simply adding all the credit points awarded for the subjects and then dividing it by the total credits allotted to that semester**.**

For example, in a total of 3 subjects, you scored the following grade points:

Subject 1: 8

Subject 2: 6

Subject 3: 7

The total credit for each subject is 10.

1. Now, first we will multiply, the grade point with the total credit point for each

subject: Subject 1: 8*10 = 80

Subject 2: 6*10 = 60

Subject 3: 7*10 = 70

2. To calculate SGPA here, you need to add all these grade points and then divide it by the total credits, i.e.

Total grade points: 210

Total credits: 30

To get SGPA, divide grade points by total credits,

=210/30

=7 SGPA

How to Find CGPA from SGPA?

To find CGPA from SGPA, you need to follow this formula:

CGPA= (SGPAs of All semesters in an academic year)/ Number of semesters

Thus, by adding up all the SGPAs you have got in an academic year by the total

number of semesters, you will find CGPA from SGPA.

For example,

Suppose that you scored 7 SGPA and 9 SGPA in your two

semesters. 1. First you need to add both these SGPAs.

2. Then, divide the total SGPA with the number of semesters, i.e.
2. Your CGPA would be:

CGPA = SGPA of all semesters in a year/Number of semesters

= (7+9)/2

= 8 CGPA

Structural and Conceptual Framework:

The website should be easy to use and should be user-friendly. It should be compatible with mobile phones and other devices. Also, the data of the user should be completely secured and (s)he has to make an account and set their password to access their account at any point in time, the content of the web page should be downloadable in pdf format

Structural and Conceptual Planning:

- Conversion of current web page content into PDF format.

- User Input(credits available as per the University's guidelines)

- Making sure to use the Information above to build a logical approach towards the Client requirements

- Encrypting passwords for user privacy(if optional)

- Making a website compatible to use on other devices.

Tools required and Hosting:

Hosting:
- **Host your static pages on GitHub,**
- **Create a repository**
- **Push all the files onto the repository**
- **Commit the changes**

- **Upload the repo into your Github account**
- **Publish the repository by finding the Publish repository button in the setting page of your repo.**

Tools required:

1. PHP server-XAMPP, WAMP, etc.

2. Logic requirement: JavaScript and Logical use of the formula

3. MySQL Database – For managing data entered by the user.

4. Editor –Visual Studio Code(recommended)

5. Front End Requirements – HTML, CSS, Javascript,BS(optional)

Tags to Remember

Keep <meta charset="utf-8">

<title> is mandatory

<p> tag is mandatory

<form> is mandatory

<quote> is mandatory

<a> is mandatory

CSS part-Although design is subjective we recommend using some tags

<background color>

<margin>

<text styles>

Basic tools you will need:

For good performance, you will at least need a Pentium 200-MHz computer with a minimum of 64 MB of RAM (128 MB of RAM recommended).

You will also need the following software −

- Linux 7.1 or Windows xp/7/8/10 operating system
- Text editor (VS code recommended)

Submission details:

1. You will be given a time of 10 days to submit the Project report whose format will be sent to you by our Partners(TIE)

2. Individual submission is mandatory, even if worked in groups or teams. Project to be And is to be compressed into one zip file for submission. A sample report will be sent, and necessary changes are to be made