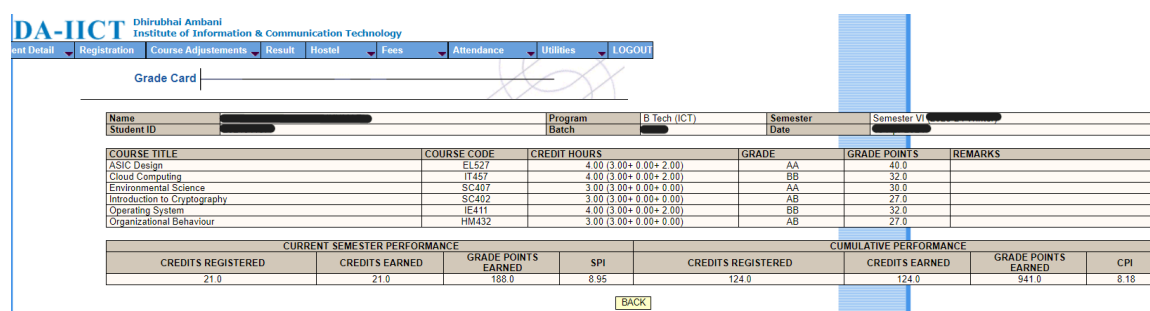# CPI Predictor for DA-IICT Students

User Manual & Reference Guide

NOTE : The algorithm and constraints are specifically designed for the DA-IICT grading system.

Example :

→ Open your latest grade report from https://ecampus.daiict.ac.in, which should look like this.

INPUTS:

→ **Current CPI** : Enter the your current CPI

→ **Earned Grade Points** : Enter the grade points you see in your report

Note : You can calculate your CPI by either providing your current CPI or Earned GradePoints. But if you don't provide grade points and only CPI, the output may have little inaccuracies. It is always advised to use your earned grade points.

→ **Total Credits Earned Till Now :**

Note : Here you don't have to count the credits which are not included while calculating CPI (i.e pass/fail course)

Ex. Extra Curricular Courses, Exploratory Project, Rural Internship, Summer Internship etc.

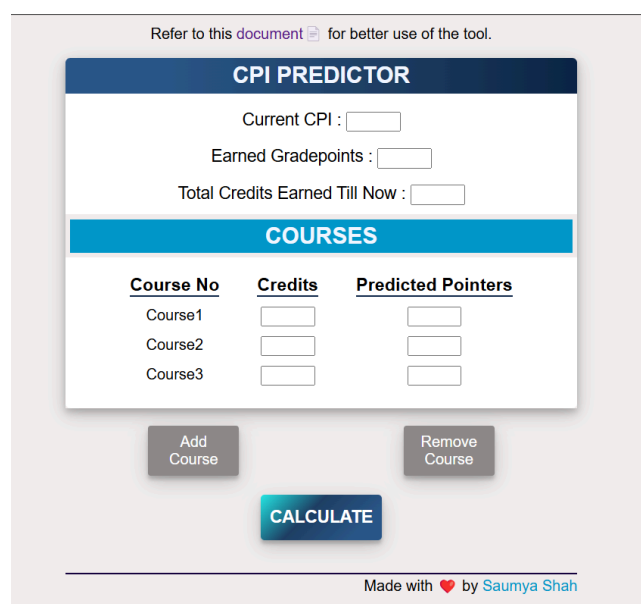Subtract these extra credits from the credits earned field and input here.

→ Now, according to your current enrolled semester,add the total number of courses.

→ Enter the credits of each course you have taken.

→ In the **Predicted Pointers** field, add your estimations about the grades. Suppose you will earn a BB in some course, then enter 8 in the respective field.

→ Click Calculate and your SPI and CPI will be calculated

DEMO
SEM V GRADE SHEET

Name		Program	B Tech (ICT)	Semester	
Student ID		Batch		Date	

COURSE TITLE	COURSE CODE	CREDIT HOURS	GRADE	GRADE POINTS	REMARKS
Digital Communications	CT304	4.00 (3.00+ 0.00+ 2.00)	BB	32.0	
Software Engineering	IT313	4.00 (3.00+ 0.00+ 2.00)	AB	36.0	
Computer Networks	IT305	4.00 (3.00+ 0.00+ 2.00)	AA	40.0	
Nanoelectronics	EL453	3.00 (3.00+ 0.00+ 0.00)	AA	30.0	
Optimization	IE402	4.00 (3.00+ 0.00+ 2.00)	AA	40.0	

CURRENT SEMESTER PERFORMANCE				CUMULATIVE PERFORMANCE			
CREDITS REGISTERED	CREDITS EARNED	GRADE POINTS EARNED	SPI	CREDITS REGISTERED	CREDITS EARNED	GRADE POINTS EARNED	CPI
19.0	19.0	178.0	9.37	103.0	103.0	753.0	8.01

Current CPI is **8.01**

Earned Grade Points **753.0**

Credits Earned : 103   Note : 4 credits → ExtraCurriculars,

               3 credits → Rural Internship,

               2 credits → Exploration Project

            ----

                 9 Extra Credits need to be subtracted

Credits Earned : 103 - 9 = **94**

Refer to this document 📄 for better use of the tool.

CPI PREDICTOR

Current CPI : 8.01

Earned Gradepoints : 753.0

Total Credits Earned Till Now : 94

COURSES

Course No	Credits	Predicted Pointers
Course1		
Course2		
Course3		

[Add Course]   [Remove Course]

[CALCULATE]

In the 6th sem,
There are **6** registered courses.

From which **3** courses are of **4** credits and **3** are of **3** credits.
Let's assume,
In 3 credit courses the assumed scores are **AA**,**AB** and **AB** (i.e **10,9,9**) and
In 4 credit courses the assumed scores are **AA**,**AB** and **BB** (i.e **10,8,8**)

The input would look like this:

Refer to this document 📄 for better use of the tool.

CPI PREDICTOR

Current CPI : 8.01

Earned Gradepoints : 753.0

Total Credits Earned Till Now : 94

COURSES

Course No	Credits	Predicted Pointers
Course1	3	10
Course2	3	9
Course3	3	9
Course4	4	10
Course5	4	8
Course6	4	8

Add Course   Remove Course

CALCULATE

→ After hitting the calculate button you can see your predicted CPI and SPI.

CALCULATE

CPI : 8.1826
SPI : 8.9524

We can verify that the results are exactly the same.
CPI : 8.18 and SPI : 8.95

Name			Program	B Tech (ICT)	Semester		Semester VI
Student ID			Batch		Date		

COURSE TITLE	COURSE CODE	CREDIT HOURS	GRADE	GRADE POINTS	REMARKS
ASIC Design	EL527	4.00 (3.00+ 0.00+ 2.00)	AA	40.0	
Cloud Computing	IT457	4.00 (3.00+ 0.00+ 2.00)	BB	32.0	
Environmental Science	SC407	3.00 (3.00+ 0.00+ 0.00)	AA	30.0	
Introduction to Cryptography	SC402	3.00 (3.00+ 0.00+ 0.00)	AB	27.0	
Operating System	IE411	4.00 (3.00+ 0.00+ 2.00)	BB	32.0	
Organizational Behaviour	HM432	3.00 (3.00+ 0.00+ 0.00)	AB	27.0	

CURRENT SEMESTER PERFORMANCE				CUMULATIVE PERFORMANCE			
CREDITS REGISTERED	CREDITS EARNED	GRADE POINTS EARNED	SPI	CREDITS REGISTERED	CREDITS EARNED	GRADE POINTS EARNED	CPI
21.0	21.0	188.0	8.95	124.0	124.0	941.0	8.18

You can have the source code on github.
Feel free to share any doubt or open issue on the github repository.
Feel free to contribute to the project as well

thank you!

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