

C.G.P.A Grading System

Spoken Tutorial

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Joms Antony

Amal Jyothi College of Engineering

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Learning Objectives

We will learn



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We will learn

- **About CGPA Grading System**



Learning Objectives

We will learn

- **About CGPA Grading System**
- **How to calculate SGPA and CGPA**



CGPA Grading System



CGPA Grading System

- Student's performance is evaluated and represented concisely, as a grade or a score



CGPA Grading System

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- The **SGPA/CGPA** score is calculated based on



CGPA Grading System

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- The SGPA/CGPA score is calculated based on
 - * Course(Subject) Credits



CGPA Grading System

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- The SGPA/CGPA score is calculated based on
 - * Course(Subject) Credits
 - * **Grade Point Scheme**



Course Credits



Course Credits

- Credit Points are associated with every course for a given programme



Course Credits

- **Credit Points are associated with every course for a given programme**
- **As an example, consider the following table**



Sample Listing of Credit Points

SI.NO	Course	Credits
1	Course 1	4
2	Course 2	4
3	Course 3	3
4	Course 4	3
5	Course 5	2
6	Course 6	2



Sample Listing of Credit Points

SI.NO	Course	Credits
1	Course 1	4
2	Course 2	4
3	Course 3	3
4	Course 4	3
5	Course 5	2
6	Course 6	2

**Credit Points distribution for a
given semester**



Grade Point Scheme



Grade Point Scheme

- **A Grade Point Scheme is also published as part of the curriculum**



Grade Point Scheme

- **A Grade Point Scheme is also published as part of the curriculum**
- **The following table shows one such Grade Point Scheme**



Sample Grade Point Scheme

Letter Grade	Marks	Grade Point
O	80 and above	10
A	75 to 79.99	9
B	70 to 74.99	8
C	60 to 69.99	7
D	50 to 59.99	6
E	45 to 49.99	5
P	40 to 44.99	4
F (Fail)	39.99 and below	0



SGPA



SGPA

- SGPA stands for **Semester Grade Point Average** score



SGPA

- SGPA stands for **Semester Grade Point Average** score
- SGPA represents the student's performance in a given semester



SGPA Calculation



SGPA Calculation

$$SGPA = \frac{\sum_{i=1}^n C_i \cdot G_i}{\sum_{i=1}^n C_i}$$



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n: Number of courses in a given semester



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$$SGPA = \frac{\sum_{i=1}^n C_i \cdot G_i}{\sum_{i=1}^n C_i}$$

C_i : Credit Points allocated for i^{th}
Course



SGPA Calculation

$$SGPA = \frac{\sum_{i=1}^n C_i \cdot G_i}{\sum_{i=1}^n C_i}$$

G_i : Grade Points obtained for i^{th}
Course



CGPA



- **CGPA** stands for **Cumulative Grade Point Average** score



- CGPA stands for **Cumulative Grade Point Average** score
- Represents the student's performance for all the courses he/she has completed



CGPA Calculation



CGPA Calculation

$$CGPA = \frac{\sum_{i=1}^N C_i \cdot G_i}{\sum_{i=1}^N C_i}$$



CGPA Calculation

$$CGPA = \frac{\sum_{i=1}^N C_i \cdot G_i}{\sum_{i=1}^N C_i}$$

N: Total number of completed courses
in a given programme



CGPA Calculation

$$CGPA = \frac{\sum_{i=1}^N C_i \cdot G_i}{\sum_{i=1}^N C_i}$$

C_i : Credit Points allocated for i^{th}
course



CGPA Calculation

$$CGPA = \frac{\sum_{i=1}^N C_i \cdot G_i}{\sum_{i=1}^N C_i}$$

G_i : **Grade Points obtained for i^{th} course**



SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76		
2	Course 2	4	60		
3	Course 3	3	50		
4	Course 4	3	55		
5	Course 5	2	80		
6	Course 6	2	90		



SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	
2	Course 2	4	60		
3	Course 3	3	50		
4	Course 4	3	55		
5	Course 5	2	80		
6	Course 6	2	90		



SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	
2	Course 2	4	60	7	
3	Course 3	3	50		
4	Course 4	3	55		
5	Course 5	2	80		
6	Course 6	2	90		



SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	
2	Course 2	4	60	7	
3	Course 3	3	50	6	
4	Course 4	3	55		
5	Course 5	2	80		
6	Course 6	2	90		



SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	
2	Course 2	4	60	7	
3	Course 3	3	50	6	
4	Course 4	3	55	6	
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6	Course 6	2	90	10	



SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	
3	Course 3	3	50	6	
4	Course 4	3	55	6	
5	Course 5	2	80	10	
6	Course 6	2	90	10	



SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	
4	Course 4	3	55	6	
5	Course 5	2	80	10	
6	Course 6	2	90	10	



SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
4	Course 4	3	55	6	
5	Course 5	2	80	10	
6	Course 6	2	90	10	



SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
4	Course 4	3	55	6	18
5	Course 5	2	80	10	
6	Course 6	2	90	10	



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4	Course 4	3	55	6	18
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4	Course 4	3	55	6	18
5	Course 5	2	80	10	20
6	Course 6	2	90	10	20



$$\sum_{i=1}^n C_i \cdot G_i = 140$$



SGPA Calculation Example

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1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
4	Course 4	3	55	6	18
5	Course 5	2	80	10	20
6	Course 6	2	90	10	20

$$\sum_{i=1}^n C_i = 18$$



SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
4	Course 4	3	55	6	18
5	Course 5	2	80	10	20
6	Course 6	2	90	10	20

$$SGPA = \frac{140}{18} = 7.77778$$



CGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18



CGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
-					



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-	Course -				



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3	Course 3	3	50	6	18
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-					



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1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
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-	Course -	-	-	-	-
-	Course -				



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1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
-	Course -	-	-	-	-
-	Course -	-	-	-	-



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1	Course 1	4	76	9	36
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1	Course 1	4	76	9	36
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CGPA Calculation Example

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1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
-	Course -	-	-	-	-
-	Course -	-	-	-	-
50					



CGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
-	Course -	-	-	-	-
-	Course -	-	-	-	-
50	Course 50				



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Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
-	Course -	-	-	-	-
-	Course -	-	-	-	-
50	Course 50	3			



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1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
-	Course -	-	-	-	-
-	Course -	-	-	-	-
50	Course 50	3	50		



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1	Course 1	4	76	9	36
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-	Course -	-	-	-	-
-	Course -	-	-	-	-
50	Course 50	3	50	6	



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1	Course 1	4	76	9	36
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3	Course 3	3	50	6	18
-	Course -	-	-	-	-
-	Course -	-	-	-	-
50	Course 50	3	50	6	18



CGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
-	Course -	-	-	-	-
-	Course -	-	-	-	-
50	Course 50	3	50	6	18

- The same method, as in the case of SGPA calculation, is followed here



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Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
-	Course -	-	-	-	-
-	Course -	-	-	-	-
50	Course 50	3	50	6	18



- Here, all the completed courses are taken into account



Summary



Summary

- **About CGPA Grading System**
- **How to calculate SGPA and CGPA scores**



About the Spoken Tutorial Project

- Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- It summarises the Spoken Tutorial project



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Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- Conducts workshops using spoken tutorials
- Gives certificates to those who pass an online test
- For more details, please write to contact@spoken-tutorial.org



Acknowledgements

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- It is supported by the National Mission on Education through ICT, MHRD, Government of India
- More information on this Mission is available at

<http://spoken-tutorial.org/NMEICT-Intro>



About the contributor

- This script has been contributed by:
Dept.of Information Technology,
Amal Jyothi College of Engineering
- Thanks for joining

